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Falcon Meadows at Bent Grass Filing No. 4 Transportation Memorandum (LSC #S214333) October 7, 2022

Traffic Engineer's Statement

This traffic report and supporting information were prepared under my responsible charge and they comport with the standard of care. So far as is consistent with the standard of care, said report was prepared in general conformance with the criteria established by the County for traffic reports.



Developer's Statement

I, the Developer, have read and will comply with all commitments made on my behalf within this report.

Date

Falcon Meadows at Bent Grass Filing No. 4 Transportation Memorandum

Prepared for: Mr. Jim Byers VP of Community Development Challenger Homes 8605 Explorer Dr, Suite 250 Colorado Springs, CO 80920

OCTOBER 7, 2022

LSC Transportation Consultants Prepared by: Kirstin D. Ferrin, P.E. Reviewed by: Jeffrey C. Hodsdon, P.E.

LSC #S214333



CONTENTS

LAND USE AND ACCESS	1
Land Use	1
Access	1
Sight Distance	2
Pedestrian Routes to Schools	2
EXISTING TRAFFIC CONDITIONS	2
TRIP GENERATION	3
PROJECTED SHORT-TERM ADDITIONAL TRAFFIC	3
SHORT-TERM TOTAL TRAFFIC	3
2040 TOTAL TRAFFIC	3
REQUIRED IMPROVEMENTS	4
ROADWAY CLASSIFICATIONS	6
ROAD IMPROVEMENT FEE PROGRAM	6
Enclosures:	6

Tables 1-2

Figures 1-7

Pages from the Falcon Meadows at Bent Grass Updated Traffic Impact Study December 11, 2020 (with updates noted)

Traffic Counts

Falcon Marketplace TIS Report Addendum



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October 7, 2022

Mr. Jim Byers VP of Community Development Challenger Homes 8605 Explorer Dr, Suite 250 Colorado Springs, CO 80920

> RE: Falcon Meadows at Bent Grass Filing No. 4 El Paso County, CO Updated Transportation Memorandum LSC #S214333

Dear Mr. Byers,

LSC Transportation Consultants, Inc. has prepared this updated Transportation Memorandum for Falcon Meadows at Bent Grass Filing No. 4. The location of the site is shown in Figure 1. This report is intended as a site-specific, final-plat traffic report for the currently-proposed Filing 4.

LSC recently completed a traffic impact study (TIS) for the Falcon Meadows at Bent Grass PUD (PUDSP-20-005). This report was dated December 11, 2020. The land use and access currently proposed for Filing No. 4 is consistent with the land use and trip generation estimated and evaluated in that report.

Memos were also prepared for Filing 1 (dated September 28, 2021), Filing 2 (dated March 18, 2022), and Filing 3 (dated April 7, 2022).

LAND USE AND ACCESS

Land Use

Filing No. 4 is planned to include a total of 39 lots for single-family homes. The location of the lots to be included as part of currently-proposed Filing No. 4 was included in traffic-analysis zone (TAZ) 1 in the PUD TIS.

Access

Two full-movement access points (Rowena Way and Henzilee Place) to the recently-completed section of Bent Grass Meadows Drive were approved as part of Falcon Meadows at Bent Grass

Filing No. 2. An additional access point (Lemon Grass Road) is proposed to be constructed as part of Filing No. 4. Please refer to the attached site-plan exhibit. Figure 2 shows the location of the access points.

Page 2

Sight Distance

Figure 3 shows a sight-distance analysis at the proposed Falcon Meadows at Bent Grass access points to Bent Grass Meadows Drive. Based on a design speed of 40 miles per hour (mph) on Bent Grass Meadows Drive and the criteria contained in Table 2-21 of the *Engineering Criteria Manual (ECM)*, the required intersection sight distance at the proposed site-access points is 445 feet. The required stopping sight distance from *ECM* Table 2-17 is also shown in the figure. The required intersection sight distance can be met at both intersections if the areas between the sight-distance lines and the curb line have low-level landscaping and are kept free of other obstructions (such as monument signs and parking areas) that would restrict the drivers' line of sight. Landscaping should be low — about 18 inches or lower in height — to the east of the passenger-vehicle lines of sight shown. Please refer to *ECM* Sections 2.3.6.G.1 and 2.

Pedestrian Routes to Schools

- Woodmen and Meridian are shown as proposed bike routes on the *Major Transportation Corridors Plan (MTCP)* Non-Motorized Plan. Also shown is a proposed secondary regional trail west of the site.
- Bent Grass Meadows Drive is sufficiently wide for bicycles with the paved shoulder.
- There are developing pedestrian connections along the north side of the Woodmen North Frontage Road, Bent Grass Meadows Drive, and Meridian Park Drive. Other area sections of sidewalk/trail connections are being added as development occurs.
- Sidewalks have been added along Bent Grass Meadows Drive with the connection south to the frontage road, adjacent to the School District 49 headquarters.
- The subdivision streets will all have sidewalks to connect to the sidewalk along Bent Grass Meadows Drive.

EXISTING TRAFFIC CONDITIONS

Figure 4 shows the existing morning and afternoon peak-hour traffic volumes at the intersections of Woodmen Road/Golden Sage Road and Meridian Road/Bent Grass Meadows Drive. The counts at the intersection of Woodmen Road/Golden Sage Road were counted in January 2020 and again in December 2020. The January 2020 counts were conducted prior to the completion of Bent Grass Meadows Drive between the Woodmen frontage road and Meridian Road, but before the restrictions due to the COVID-19 pandemic were put in place. Figure 4 shows the results of both the October 2018 counts and the October 2020 counts, as the more current counts were likely impacted by the COVID-19 pandemic. The traffic-count reports are attached.

TRIP GENERATION

The site-generated vehicle trips were estimated using the nationally-published trip-generation rates from *Trip Generation*, *11th Edition*, 2021 by the Institute of Transportation Engineers (ITE). Table 1 shows the trip-generation estimates for Falcon Meadows at Bent Grass Filing No. 4.

Falcon Meadows at Bent Grass Filing No. 4 is expected to generate about 368 vehicle trips on the average weekday, with about half entering and half exiting the site during a 24-hour period. During the morning peak hour, which generally occurs for one hour between 6:30 a.m. and 8:30 a.m., about 7 vehicles would enter and 22 vehicles would exit the site. During the afternoon peak hour, which generally occurs for one hour between 4:15 p.m. and 6:15 p.m., about 24 vehicles would enter and 14 vehicles would exit the site.

PROJECTED SHORT-TERM ADDITIONAL TRAFFIC

Figure 5 shows the projected additional traffic volumes at the intersections of Woodmen/Golden Sage and Meridian/Bent Grass Meadows due to Falcon Meadows at Bent Grass Filing No. 4. These volumes were calculated by applying the external trip-distribution percentages shown in Figure 7 of the PUD TIS to the trip generation shown in Table 1. Trips with destinations and/or origins within the area bound by Woodmen Road on the south and Meridian Road on the east have been assigned separately, based on the location of the future commercial and school uses within the study area.

Figure 5 also shows the projected additional traffic volumes at the intersections of Woodmen/Golden Sage and Meridian/Bent Grass Meadows due to Bent Grass Residential Filing 2 taken from the TIS dated January 24, 2020 (PCD File No. SF-1914), due to Falcon Meadows at Bent Grass Filing No. 1 taken from the September 2021 memorandum (PCD File NO. SF-2034), due to Falcon Meadows at Bent Grass Filing No. 2 taken from the March 2022 memorandum (PCD File NO. SF-2134), and due to Falcon Meadows at Bent Grass Filing No. 3 taken from the April 2022 memorandum (PCD File NO. SF-2216).

SHORT-TERM TOTAL TRAFFIC

Figure 6 shows the projected short-term total traffic volumes at the intersections of Woodmen/Golden Sage and Meridian/Bent Grass Meadows. The volumes are the sum of the January 2020 traffic volumes (from Figure 4) plus the additional short-term traffic volumes (from Figure 5). Please refer to the PUD TIS for short-term total traffic volumes at the other area intersections and the short-term level of service analysis.

2040 TOTAL TRAFFIC

Please refer to the PUD TIS for the 2040-total traffic volumes and level of service analysis.

REQUIRED IMPROVEMENTS

Based on the projected short-term total traffic volumes from the PUD TIS, the classification of Bent Grass Meadows Drive as an Urban Non-Residential Collector, and the criteria contained in the *ECM*, right-turn deceleration lanes are **not** projected to be warranted on Bent Grass Meadows Drive approaching any of the Falcon Meadows at Bent Grass access points (Rowena Way, Henzlee Place, and Lemon Grass Road).

Based on the projected short-term total traffic volumes from the PUD TIS, the classification of Bent Grass Meadows Drive as an Urban Non-Residential Collector, and the criteria contained in the *ECM*, northeast-bound left-turn lanes are projected to be warranted on Bent Grass Meadows Drive approaching all of the Falcon Meadows at Bent Grass access points (Rowena Way, Henzlee Place, and Lemon Grass Road). Bent Grass Meadows Drive has been constructed with a center two-way, left-turn lane that will meet these criteria.

Please see a copy of Table 4 Roadway System Improvements from the PUD TIS with annotations added in September 2021 (as part of the Filing 1 memo), March 2022 (as part of the Filing 2 memo), April 2022 (as part of the Filing 3 memo) and June 2022 (for this memo) indicating the status of each improvement.

Regarding Improvement F, note that Bent Grass Meadows Drive has been completed between the Woodmen frontage road and Meridian Road since completion of the PUD TIS. The approved Filing 1 in Falcon Meadows at Bent Grass required construction, paving, and associated repairs to Bent Grass Meadows Drive south of the site, as deemed appropriate by the PCD Director and the County Engineer, including design and construction of an eastbound left-turn lane on Woodmen Frontage Road at Bent Grass Meadows Drive, if warranted, to meet the minimum standards of a Non-Residential Collector in accordance with the *Engineering Criteria Manual*. These road improvements may be eligible for cost recovery from adjacent developers.

Meeting were held with El Paso County PCD staff and City Traffic Engineering on March 14, 2022 and March 29, 2022 to discuss items G,H, I, and J in this table. The intersection is under city ownership/jurisdiction, however the ownership of the intersection of Golden Sage/N. Frontage Road is not clear. The city will be researching the ownership and the availability of potential additional ROW (if possible) to accommodate potential future alternative intersection options for the intersection of Golden Sage/N. Frontage Road and the approach legs to the south, east and west. It was determined that item H would not be needed at this time. Item I would likely be needed in the short term; however, it was agreed that Falcon Meadows at Bent Grass would only be required to provide escrow towards this improvement for future construction once ownership and the availability of potential additional ROW is determined.

As of the week of **June 20, 2022**, and a conversation with City Traffic staff, there are no updates to the above meeting notes. City staff indicated they would like the County to collect the escrow from this and all future Falcon Meadows at Bent Grass filings and then give the money to the City

to go towards future improvements at Golden Sage/Woodmen and Golden Sage/North Frontage Road.

Page 5

Regarding Improvement G, protected/permitted phasing has been added to the intersection of Golden Sage/Woodmen. This improvement is complete.

Regarding Improvement H, the Falcon Marketplace TIS Report Addendum by LSC dated July 21, 2020 (PCD File No. SP-17-001/CDR-16-007) identified the trigger for the need to lengthen the current eastbound single left-turn deceleration lane on Woodmen Road approaching Golden Sage Road as when the eastbound left-turn volume is greater than 200 vehicles per hour (vph) during the afternoon peak hour. As shown in Figure 6, following buildout of Bent Grass Residential Filing No. 1 and Falcon Meadows at Bent Grass Filings Nos. 1, 2, 3 and 4, the projected volume for this movement is 222 vph during the afternoon peak hour. However, it should be noted that our understanding is that control over the intersection of Golden Sage/Woodmen has been transferred to the City of Colorado Springs as part of the Banning Lewis Ranch North Annexation (CPC A 19-00022). The outcome of a meeting with the city was that item H would not be needed at this time.

Regarding Improvement I, the *Falcon Marketplace TIS Report Addendum* by LSC dated July 21, 2020 (PCD File No. SP-17-001/CDR-16-007) identified the trigger for the need to for an exclusive southbound right-turn deceleration lane on Golden Sage Road approaching Woodmen Road as when the southbound left-turn volume is greater than 167 to 192 vph during the morning peak hour. As shown in Figure 6, following buildout of Bent Grass Residential Filing No. 1 and Falcon Meadows at Bent Grass Filings Nos. 1, 2, 3 and 4, the projected volume for this movement is 225 vph during the morning peak hour. This exceeds the estimated trigger identified that would require the construction of an exclusive southbound right-turn deceleration lane. However, recent analysis suggests that the existing laneage will accommodate Filing 4 traffic. Also note that control over the intersection of Golden Sage/Woodmen has transferred to the City of Colorado Springs as part of the Banning Lewis Ranch North Annexation (CPC A 19-00022). The outcome of meetings with the city was that escrow would be collected for improvement I for future construction once right-of-way and ownership issues are resolved.

Table 2 shows the percentage of the projected 2040 total traffic due to Falcon Meadows at Bent Grass Filing No 4 for Improvements H, I, and J. These percentages could be used to determine the pro-rata share of the cost of intersection improvements. However, it should be noted that control over the intersection of Golden Sage/Woodmen has been transferred to the City of Colorado Springs as part of the Banning Lewis Ranch North Annexation (CPC A 19-00022). Per the paragraph above, additional research is underway which will be helpful in determining a solution for Golden Sage/N. Frontage Road.

ROADWAY CLASSIFICATIONS

Figure 7, shows the recommended internal street classifications.

ROAD IMPROVEMENT FEE PROGRAM

Applicable fees will need to be paid to the Woodmen Road District pursuant to the agreement between El Paso County and the Woodmen Road District.

Figure 7 has been removed. Please provide/update

Please contact me if you have any questions regarding this report.

Respectfully Submitted,

LSC TRANSPORTATION CONSULTANTS, INC.

By: Jeffrey C. Hodsdon, P.E. Principal

JCH/KDF:jas

Enclosures: Tables 1-2

Figures 1-7

Pages from the Falcon Meadows at Bent Grass Updated Traffic Impact Study December 11, 2020 (with updates noted) Traffic Counts

Falcon Marketplace TIS Report Addendum



				Trip Gener	ible 1 ation Estir <u>Bent Gras</u>	nate s Filing No	o. 4					
Land	Land	Tein	A		eration Ra		noon			Trips Gene		
Land Use	Land Use	Trip Generation	Average Weekday	Mor Peak	•		Hour	Average Weekday		ning Hour		rnoon Hour
Code	Description	Units	Traffic	In	Out	In	Out	Traffic	ln	Out	In	Out
210	Single-Family Detached Housing	39 DU ⁽²⁾	9.44	0.19	0.56	0.62	0.37	368	7	22	24	14
	e: " <i>Trip Generation, 11th Edition, 201</i> dwelling unit	7" by the Institu	ite of Transpo	rtation Eng	ineers (ITE	2)						
Source: LSC	C Transportation Consultants, Inc.											Jun-22

		Table 2			
		Contribution Calculations ⁽¹⁾			
		ows at Bent Grass Filing No. 4			AM - DM
ltem	Improvement Description and Estimated Cost	Site-Generated Traffic ⁽²⁾	AM	PM	AM + PM
		(vehicles per hour)	4	12	16
	Lengthening of the current eastbound single left-turn deceleration lane Woodmen approaching Golden Sage Road	on 2040 Total Traffic ⁽²⁾ (vehicles per hour)	319	447	766
Н		%	1.25%	2.68%	2.09%
	Estimated Improvement Cost: \$ 200,00	Estimated Fair-Share Portion for this project based on calculated AM + PM percentage:			\$ 4,178
		Site-Generated Traffic ⁽³⁾ (vehicles per hour)	11	7	18
	Southbound exclusive right-turn lane on Golden Sage Road approachin Woodmen Road	ng 2040 Total Traffic ⁽³⁾ (vehicles per hour)	392	391	783
I		%	2.81%	1.79%	2.30%
	Estimated Improvement Cost: \$ 100,00	Estimated Fair-Share Portion for this project based on calculated AM + PM percentage:			\$ 2,299
	Signalization of Golden Sage Road/Woodmen Frontage Road or	Site-Generated Traffic ⁽⁴⁾ (vehicles per hour)	15	19	34
	reconstruction as a modern roundabout; Future additional laneage may be necessary at this intersection to accommodate vehicle queues and		979	1183	2162
J	traffic operations.	%	1.53%	1.61%	1.57%
	Estimated Improvement Cost: \$ 350,00	Estimated Fair-Share Portion for this project based on calculated AM + PM percentage:			\$ 5,504

Notes:

(1) The improvements and fair shares are to be verified with an updated traffic impact analysis or memorandum as appropriate with each final plat in the Falcon Meadows at Bent Grass development. An escrow agreement, including a financial assurance estimate for the intersection improvements, as approved by the Planning and Community Development Department Director and the County Attorney's Office shall be completed and escrow deposited with each final plat for the respective improvements within the County's jurisdiction. It should be noted that our understanding is that control over the intersection of Golden Sage/Woodmen is being transferred to the City of Colorado Springs as part of the Banning Lewis Ranch North Annexation (CPC A 19-00022).

(2) Eastbound left-turn volume at the intersection of Woodmen/Golden Sage

(3) Southbound right-turn volume at the intersection of Woodmen/Golden Sage

(4) Sum of all traffic volumes at the intersection of Golden Sage/Woodmen frontage road

Source: LSC Transportation Consultants, Inc.



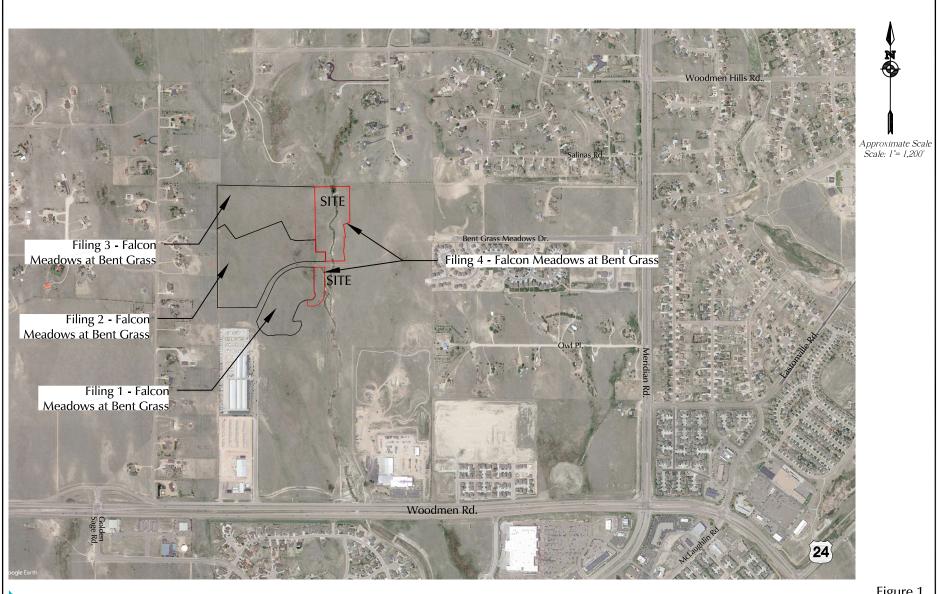
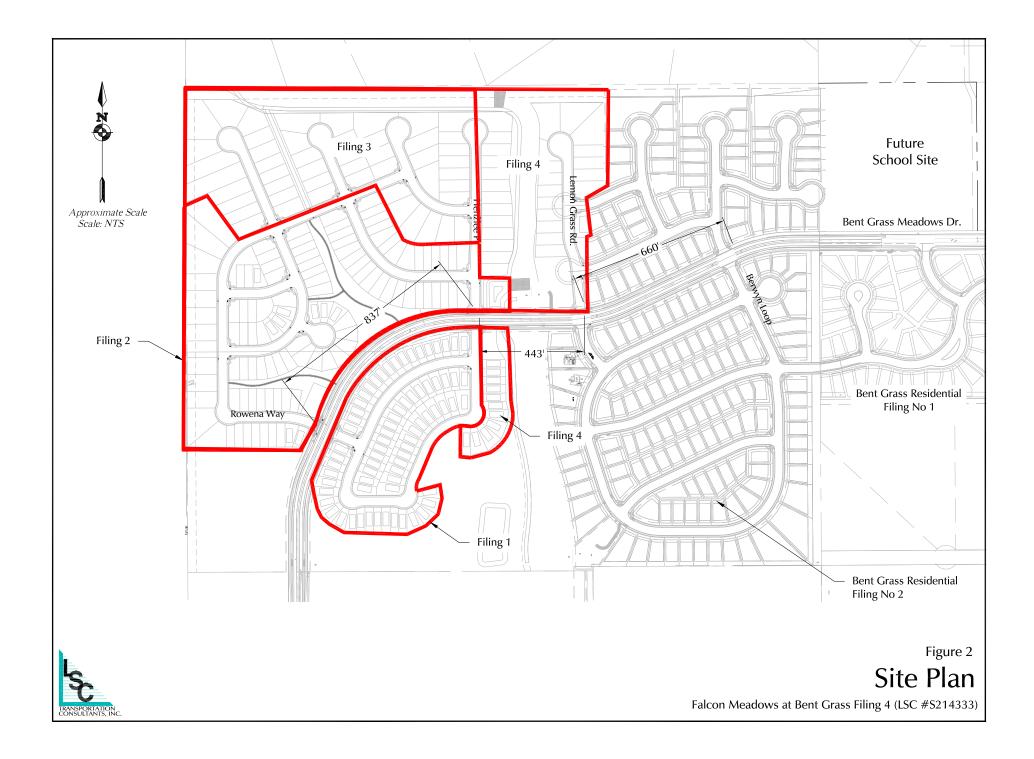
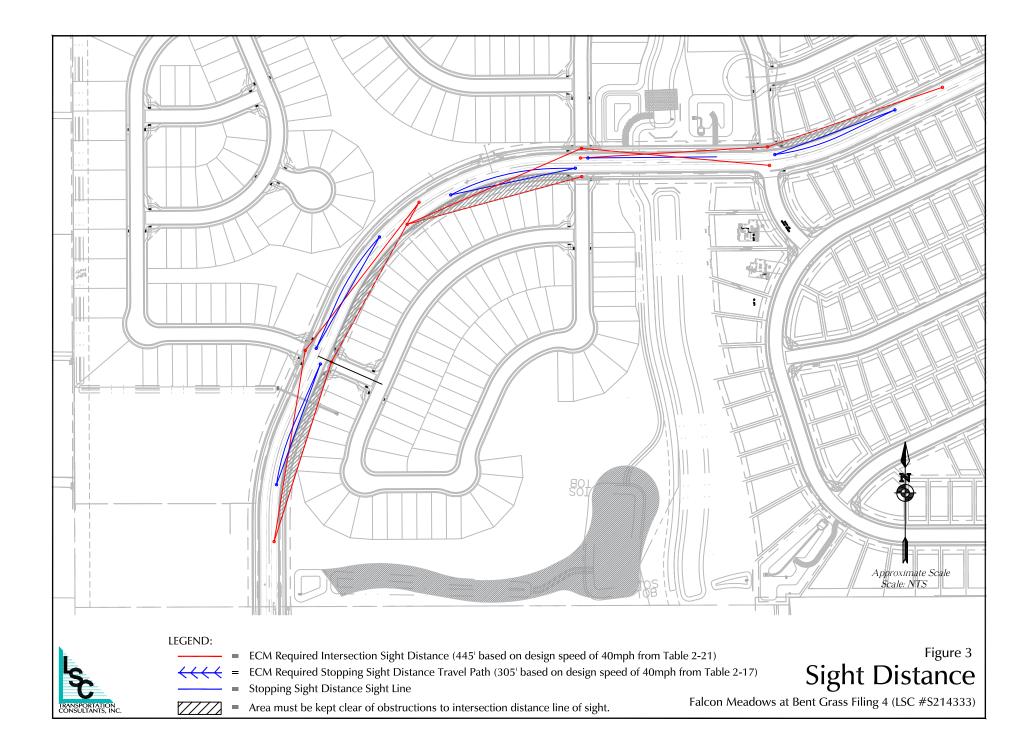




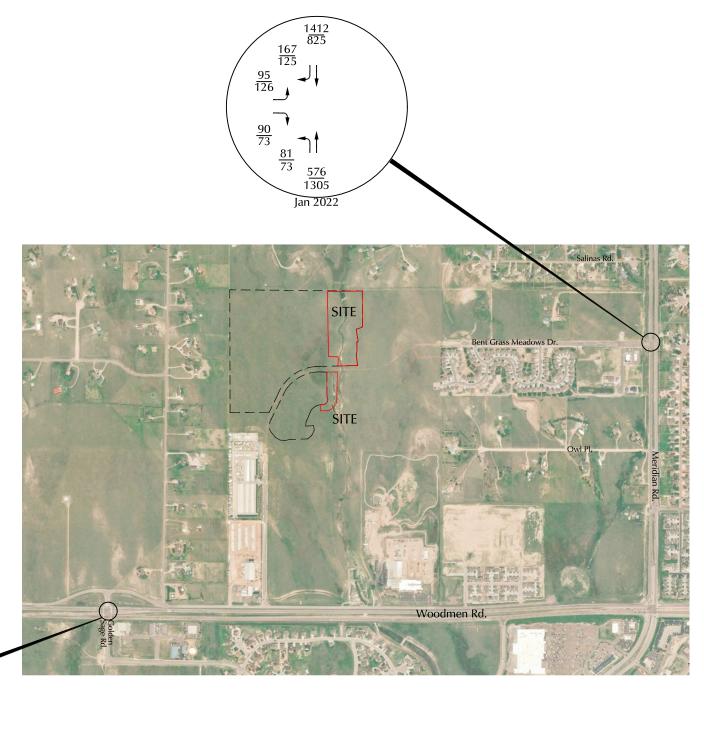
Figure 1 Vicinity Map

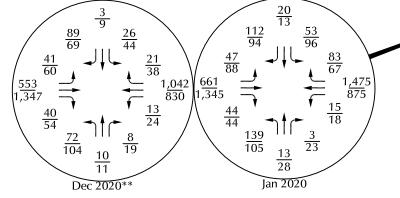
Falcon Meadows at Bent Grass Filing 4 (LSC #S214333)





**The January 2020 counts were conducted prior to the completion of Bent Grass Meadows Drive between the Woodmen frontage road and Meridian Ranch, but before impacts of the COVID-19 pandemic. The December 2020 counts were conducted following the completion of Bent Grass Meadows Drive between the Woodmen frontage road and Meridian Ranch, but during the COVID-19 pandemic.





LEGEND:

 $\frac{XX}{XX} = \frac{AM \text{ Weekday Peak-Hour Traffic (vehicles per hour)}}{PM \text{ Weekday Peak-Hour Traffic (vehicles per hour)}}$

X,XXX= Average Daily Traffic (vehicles per day)





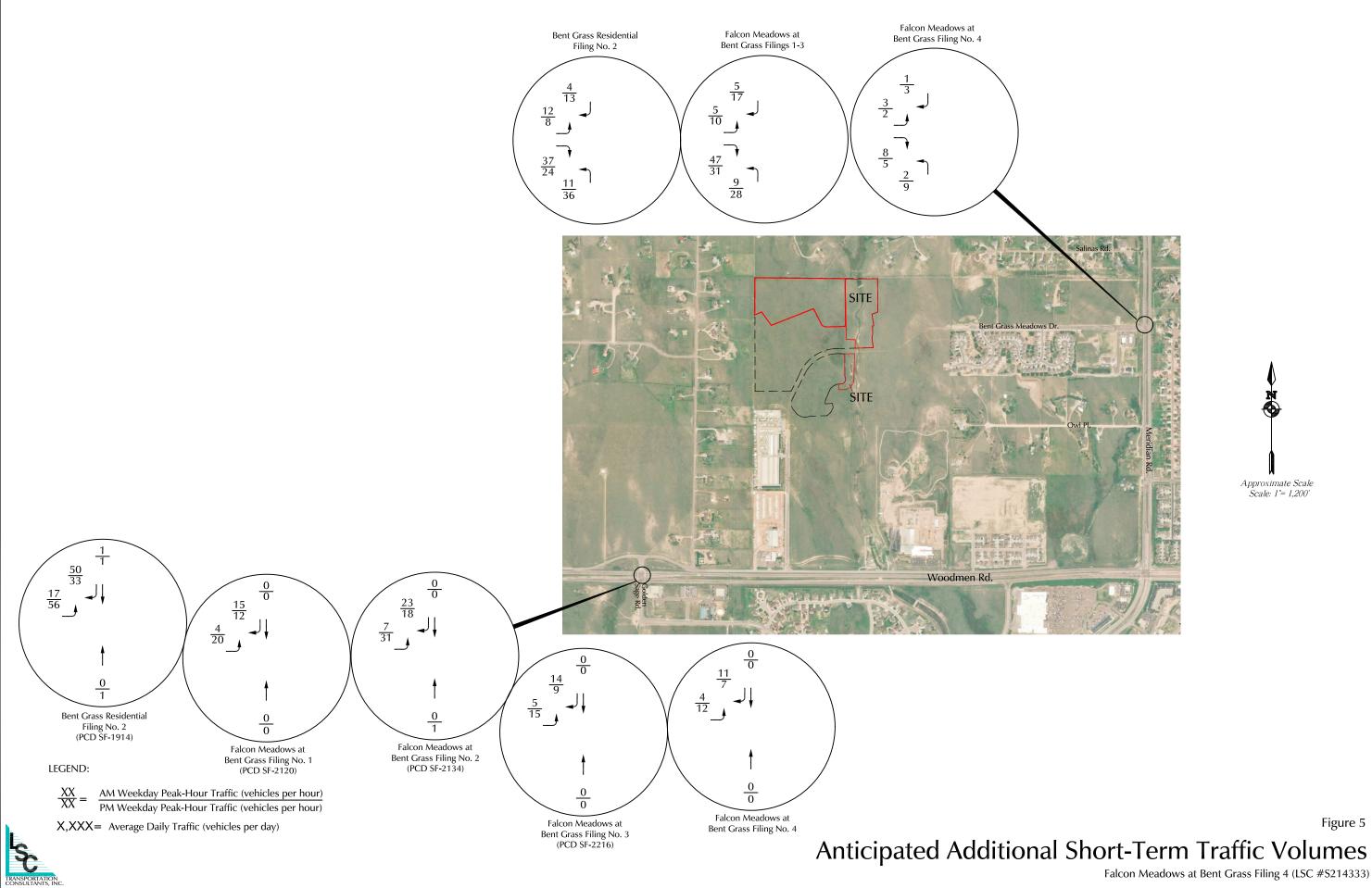
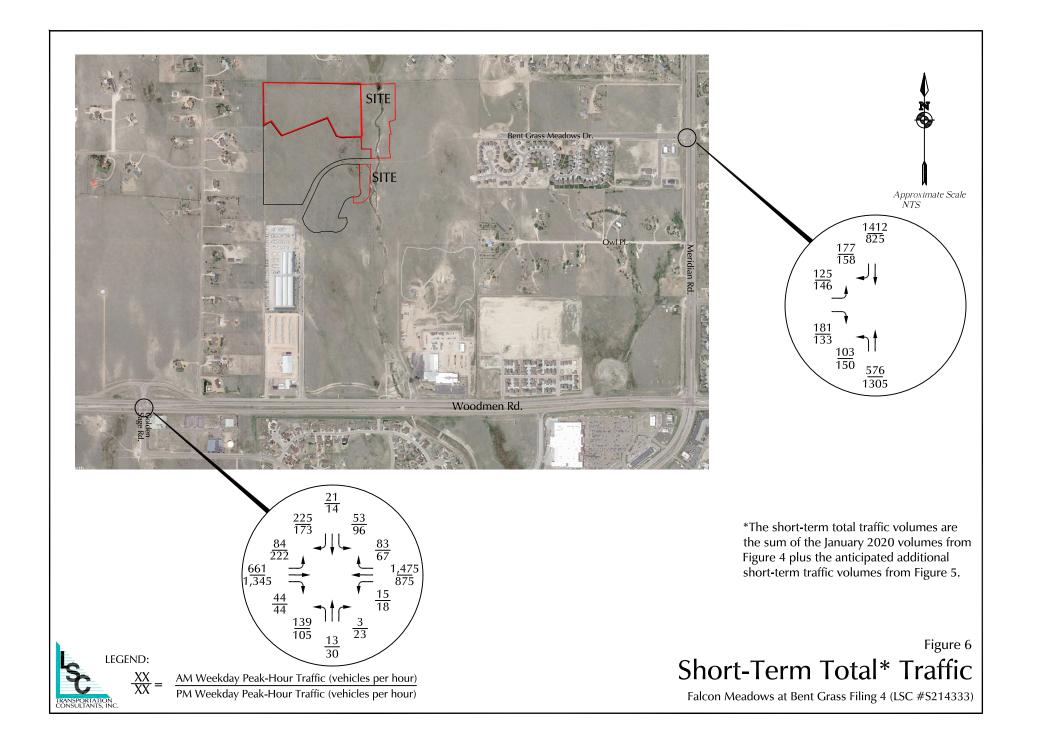




Figure 5

Falcon Meadows at Bent Grass Filing 4 (LSC #S214333)



Additional Attachments

Pages from the Falcon Meadows at Bent Grass Updated Traffic Impact Study December 11, 2020 (with updates noted)



Tak	en from the <i>Falcon Meadows a</i>	t Bent Grass Updated		Updated		Updated for
	ffic Impact Study December 11,			March 2		Fil 4 June
202	ed in July 2021 and September			Updated	for Fil 3 April	2022
	mmm		Table 4	2022.		
			dway System Improvements alcon Meadows at Bent Grass			
	Description	Moridia	Trigger n Road/Bent Grass Meadows Road		Timing	Reponsiblity
A	Signalize Meridian/Bent Grass Meadows	Remove existing stop-sign and replace with traffic signal control.	When warrant(s) are met 2 of the 3 co Experience" warrant are currently met. T reported crashes (susceptible to correcti threshold as do the associated traffic vol	The current number of ion with a signal) exceeds the	With consist of the approved extension of This once improvement the the determinant of the approvement of the approvement of the determinant of t	Bent Grass Metro District
В	Right-turn acceleration lane on Meridian at Bent Grass Meadows	ECM criteria indicates the acceleration lane would need to be 960 feet long plus a 222-foot taper based on the design speed of 60 mph. Note that Owl Lane is located approximately 925 feet south of Bent Grass Meadows Drive. Therefore, the lane would be a continuous acceleration/deceleration lane between Bent Grass Meadows Drive and Owl Lane.	ECM criteria has been exceeded. A devi approved waiving this requirement with H Grass Residential Filing 1 and Bent Gra 2A. Additional development will either re approval of a new deviation or construct (Notes: The installation of the traffic sign southbound traffic allowing eastbound ri Meridian Road without an acceleration la indicates significant improvement of the crash data does not indicate a safety iss eastbound right movement without the a improvements may be needed to build the uvrying the overhead power lines south the ditch section along the west side of N reworking the radius at Meridian Road Meridian/Londonderry intersections to the extent that"] southbound right accelerat added. If the County utimately wants a southwest corner of the Bent Grass Mea intersection in conjunction with an accel Meadows just west of Meridian Road.	the development of Bent ss East Commercial Filing equire the submittal and tion of this improvement. nal will regularly stop gight turns to enter southbound ane. The LOS analysis LOS with the signal. The sue with the current accel lane. Several costly he accel lane — including to Owl Place, reconstructing Meridian Road, and This intersection is similar to Stapleton, and e north in that [or "to the tion lanes have not been raised right-turn island on this adows/Meridian Road lane, this would likely need	Accel la This with any c expand improvement has been completed	Bent Grass Metro District
С	Construct Bent Grass Meadows Drive between the existing sections located north of the Woodmen frontage road and west of Meridian Road	Construct Bent Grass Meadows Drive as a Non- Residential Collector	Bent Grass Meadows Dr With any development west of Bent Gras	iss Residential Filing No. 1	This improvement has been completed	Bent Grass Metro District
	Restrict westbound left-turn at 7-Eleven access onstruction, paving and associated repairs to ent Grass Meadows Drive south of the site, as	R This first final plat (Filing 1) in F shall require construction, pavir Bent Grass Meadows Drive sou acappropriate by the PCD Directo including design and construction lane on Woodmen Frontage Ro	ng and associated repairs with of the site, as deemed r and the County Engine on of an eastbound left tu ad at Bent Grass Meado	s to d of the existing er, urn wvs	With 50% percent development of the remain expa expa improvement has been With th pr betw Meridian Road	Bent Grass Metro District
de the	e County Engineer. Including design and instruction of an	Drive if warranted, to meet the r Residential Collector in accorda Criteria Manual. These road imp cost recovery from adjacent dev Remove the existing curb cut.	ance with the Engineering provements may be eligit	ble for Meridian Road e 7-Eleven en-turn lane approaching	With 50% percent development of the rema This reas ex improvement inic. has been With t Dr bet completed d and werden rooad	Bent Grass Metro District
		Woodmen	frontage road/Bent Grass Meadows Dr	,		
F	Eastbound left-turn lane on Woodmen frontage road approaching Bent Grass Meadows Dr.	ECM criteria indicates the left-turn lane would need to be 315 feet long (155 feet of deceleration length plus 160 feet of storage length) plus a 160-foot taper based on the design speed of 40 mph.	When the eastbound left-turn volume e		With the completion of Bent Grass Meadows Dr between the Woodmen frontage road and Meridian Road	Bent Grass Metro District*
F		be 315 feet long (155 feet of deceleration length plus 160 feet of storage length) plus a 160-foot taper based	Woodmen/Golden Sage		Dr between the Woodmen frontage road and Meridian Road Prior to the opening of the Bent Grass Meadows Boulevard to the public, signal modification plans should be prepared, and coordination with EPC DPW (and possibly the City of Colorado Springs) will be al necessary step(s) toward future implementation of this left turn phase. Steps should be taken such that the phase can be implemented shortly after it has been determined that it should be implemented. This determination would be made by monitoring the traffic volumes and operations once Bent Grass Meadows Drive connection is opened to traffic to determine if the phase	Bent Grass Metro District Applicant. These road mprovements may be elig for cost recovery from adja developers. Bent Grass Metro District service area a the Falcon Marketplace development, oth future developers of currently vacant la within the "travel shed" of the north leg (a potentially the south leg) of the Golden Sage/Woodmen N. Frontage Road intersection may also be assigned a responsible participants in future o completed (if a cost recovery agreement
Б G	Bent Grass Meadows Dr. Add protected/permitted phasing for left-turn movements Lengthening of the current eastbound single left-turn deceleration lane on Woodmen approaching Golden Sage Road 12/2/2021 See Note 2 below	be 315 feet long (155 feet of deceleration length plus 160 feet of storage length) plus a 160-foot taper based on the design speed of 40 mph. Prepare a traffic signal modification plan and furnish/install new traffic signal heads for protected- permissive phasing and other necessary hardware, software needed to implement this phase; modify	Woodmen/Golden Sage This improvement has been completed (note added:	exceeds 25 vehicles per hour level of service/traffic ues pated g No. 1 nour eastbound left turns ume (from Figure 16a of the ditional 589 directional ADT novement (based on the ITE preshold may be reached with d background trips.	Dr between the Woodmen frontage road and Meridian Road Prior to the opening of the Bent Grass modification plans should be prepared, and coordination with EPC DPW (and possible) the City of Colorado Springs) will be a necessary step(s) toward future implementation of this left turn phase. Steps should be taken such that the phase can be implemented shortly after it has been determined that it should be implemented. This determination would be made by monitoring the traffic to determine if the phase should be taken such that is opened to traffic to determine if the phase should be added at that time. 12/2/2021 See Note 2 below AS NEEDED TO MAINTAIN ADEQUATE LEVEL OF SERVICE AND VEHICLE STACKING DISTANCE." This is estimated to be when the eastbound left turn turning would not ache say proximately 200 vehicles per hour during the PM peak. This translates to about 40 vehicles per hour over the estimated short term total volume from Figure 16a of the Falcon Marketplace TIS. Note: Short term total volumes assume the Meridian extension to Highway 24 to be open.	Applicant. These road mprovements may be elig for cost recovery from adja developers. Bent Grass Metro District service area the Falcon Marketplace development, of future developers of currently vacant la within the "travel shed" of the north leg (potentially the south leg) of the Gold Sage/Woodmen N. Frontage Roa intersection may also be assigned responsible participants in future completed (if a cost recovery agreement put in place) traffic/roadway improvement Bent Grass Metro District*- pro-rate she (based on total traffic volumes) of the cost the improvement. ⁽¹⁾ Note: Other potenti responsibility for participation: In addition the yet-to-be developed properties within Bent Grass Metro District service area a the Falcon Marketplace development, of future developers of currently vacant la within the "travel shed" of the north leg (potentially the south leg) of the Golden Sage/Woodmen N. Frontage Road intersection may also be assigned as responsible participants in future or completed (if a cost recovery agreement
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SHORT TERM: Adequate stacking is available in the current turn lane - calculated queue length 204 feet. LONG TERM: Lengthen single left-turn lanes and/or future implementation of dual left-turn lanes (if capacity) needs dictate). If a dual left is implemented in the future, consideration will need to be given to the configuration on Golden Sage and at the Golden Sage/Woodmen Frontage Road intersection to receive the dual left-turn movement. A continuous right-turn lane within the 150 feet between the Woodmen Frontage Road and Woodmen Road	Woodmen/Golden Sage This improvement has been completed (note added: 4/6/2022) Interestimated "trigger" of 40 PM peak hasove the estimated short term total volt TIS) approximately translates to and add for residential trips making this turning migle family trip ratio. 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H J Notes:	Bent Grass Meadows Dr. Add protected/permitted phasing for left-turn movements Lengthening of the current eastbound single left-turn deceleration lane on Woodmen approaching Golden Sage Road 12/2/2021 See Note 2 below 12/2/2021 See Note 3 below Southbound exclusive right-turn lane on Golden Sage Road 12/2/2021 See Note 3 below Southbound exclusive right-turn lane on Golden Sage Road 12/2/2021 See Note 2 below	be 315 feet long (155 feet of deceleration length plus 160 feet of storage length) plus a 160-foot taper based on the design speed of 40 mph. Prepare a traffic signal modification plan and furnish/install new traffic signal heads for protected- permissive phasing and other necessary hardware, software needed to implement this phase; modify existing signal timing plan. Provide a 240-foot transition taper (20:1 taper ratio), 290 feet of deceleration distance plus sufficient vehicle stacking distance. CURRENT: 175-foot taper plus a 465-foot left-turn lane which translates to a 175- foot taper, 290-foot deceleration distance, and 175 feet of stacking distance. CURRENT: 175-foot taper plus a 465-foot left-turn lane and/or future implementation of dual left-turn lanes (if capacity needs dictate). If a dual left is implemented in the future, consideration will need to be given to the configuration on Golden Sage and at the Golden Sage/Woodmen Frontage Road intersection to receive the dual left-turn mervement. A continuous right-turn lane within the 150 feet between the Woodmen Frontage Road and Woodmen Road Not anticipated with Filing No. 4 Remove existing stop-signs and replace with traffic signal control or reconstruct as modern roundabout (4/66/2022) Not anticipated withh Filing No. 3 pation will need to be included in the SIA/revised develop ant would be responsible. In this case, an escrow agre	Woodmen/Golden Sage This improvement has been completed (note added: 4/6/2022) The estimated "trigger" of 40 PM peak habove the estimated short term total volitors and of or residential trips making this turning risingle family trip ratio). This estimated there there that a combination of site-generated trips and the short term total volification of the generated trips and the short term total volification of the setimated "trigger" of 5-30 AM peak habove the estimated short term total volification term total volification term total volification term total volification of the setimated "trigger" of 5-30 AM peak habove the estimated short term total volification term total volifica	exceeds 25 vehicles per hour level of service/traffic ues pated g No. 1 nour eastbound left turns ume (from Figure 16a of the ditional 589 directional ADT novemer (based on the ITE preshold may be reached with d background trips. refer to Note ort narrative. pated g No. 1 chour southbound right turns ume (from Figure 16a of the franslate to an additional 85 making this turning making this turni	Dr between the Woodmen frontage road and Meridian Road	Applicant. These road mprovements may be elig for cost recovery from adja developers. Bent Grass Metro District service area a the Falcon Marketplace development, oft future developers of currently vacant la within the "travel shed" of the north leg (a potentially the south leg) of the Gold sage/Woodmen and Golden Sage/Woodmen and Golden thersection may also be assigned at responsible participants in future of completed (if a cost recovery agreement put in place) traffic/roadway improvements the improvement. ⁽¹⁾ Note: Other potentia responsibility for participation: In addition the yet-to-be developed properties within the future developers of currently vacant lans within the "travel shed" of the north leg (at potentially the south leg) of the Golden Sage/Woodmen N. Frontage Road intersection may also be assigned as responsible participants in future or completed (if a cost recovery agreement put in place) traffic/roadway improvement put in place) traffic/roadway improvement put in place) traffic/roadway improvement put in place) traffic/roadway improvement put in place traffic volumes) of the cost the improvement. ⁽¹⁾ Note: Other potenti responsibility for participation: In addition the yet-to-be developed properties within 1 Bent Grass Metro District service area at the Falcon Marketplace development, of thure developers of currently vacant lan within the "travel shed" of the north leg (a potentially the south leg) of the cost the improvement. ⁽¹⁾ Note: Other potent responsible participatins in future or completed (if a cost recovery agreement put in place) traffic/roadway improvements the falcon Marketplace development, of thure developers of currently vacant lan within the "travel shed" of the north leg (a potentially the south leg) of the cost the improvement. ⁽¹⁾ Note: Other potenting the postibility for sub-posticit service area at the

the week of June 20th and at this time, there are no updates to this information (6/27/2022). (3) See attached *Falcon Marketplace TIS Report Addendum* dated July 21, 2020 (PCD File Nos. SP-07-001 and CDR-16-007).



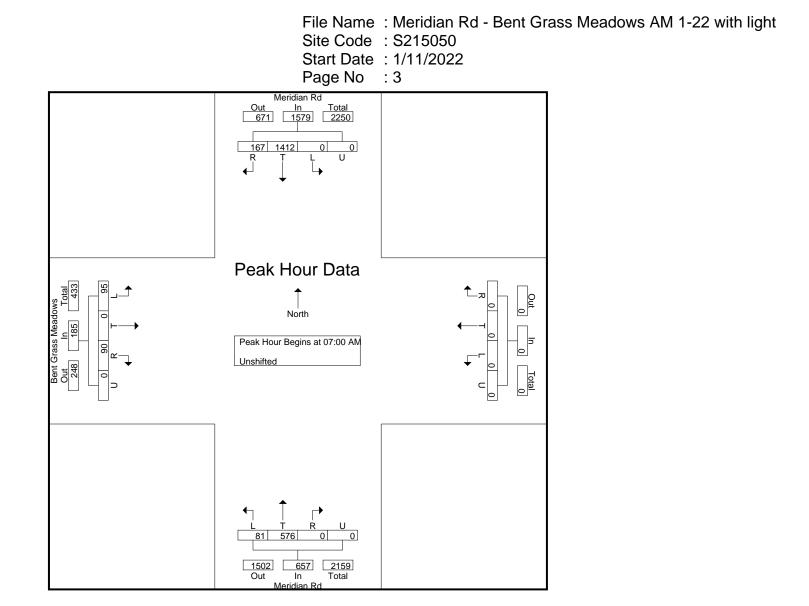
LSC Transportation Consultants, Inc. 2504 E Pikes Peak Ave, Suite 304

Colorado Springs, CO 80909 719-633-2868

File Name : Meridian Rd - Bent Grass Meadows AM 1-22 with light Site Code : S215050 Start Date : 1/11/2022 Page No : 1

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Start	L	Т	R	U	App. Total	L	т	R	U	App. Total	L	т	R	U	App. Total	L	Т	R	U	App. Total	Int. Total
Time	-	-		e		-	-		e	rippi roun	-	-		e	inpp: roun	-	-		Ũ		
06:30 AM	0	296	27	0	323	0	0	0	0	0	10	58	0	0	68	17	0	13	0	30	421
06:45 AM	0	276	29	0	305	0	0	0	0	0	11	83	0	0	94	11	0	28	0	39	438
Total	0	572	56	0	628	0	0	0	0	0	21	141	0	0	162	28	0	41	0	69	859
1																					1
07:00 AM	0	354	32	0	386	0	0	0	0	0	14	105	0	0	119	17	0	24	0	41	546
07:15 AM	0	398	32	0	430	0	0	0	0	0	20	154	0	0	174	28	0	21	0	49	653
07:30 AM	0	350	41	0	391	0	0	0	0	0	23	169	0	0	192	29	0	25	0	54	637
07:45 AM	0	310	62	0	372	0	0	0	0	0	24	148	0	0	172	21	0	20	0	41	585
Total	0	1412	167	0	1579	0	0	0	0	0	81	576	0	0	657	95	0	90	0	185	2421
08:00 AM	0	239	22	0	261	0	0	0	0	0	16	168	0	0	184	19	0	23	0	42	487
08:15 AM	0	244	43	0	287	0	0	0	0	0	9	152	0	0	161	24	0	12	0	36	484
Grand Total	0	2467	288	0	2755	0	0	0	0	0	127	1037	0	0	1164	166	0	166	0	332	4251
Apprch %	0	89.5	10.5	0		0	0	0	0		10.9	89.1	0	0		50	0	50	0		
Total %	0	58	6.8	0	64.8	0	0	0	0	0	3	24.4	0	0	27.4	3.9	0	3.9	0	7.8	

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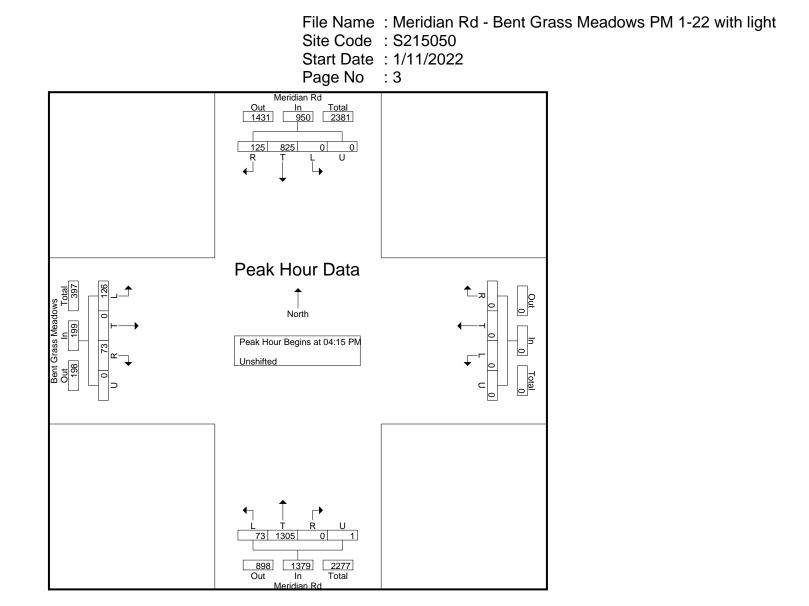
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> File Name : Meridian Rd - Bent Grass Meadows PM 1-22 with light Site Code : S215050 Start Date : 1/11/2022 Page No : 1

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Start	т	Т	R	T	App. Total	т	т	R	T	Ann Total	т	Т	R	U	Ann Total	L	т	R	U	App. Total	Int. Total
Time	L	1	N	U	App. Totai	L	1	N	U	App. Total	L	1	К	U	App. Total	Ľ	1	K	U	App. Totai	IIIt. Total
04:00 PM	0	260	36	0	296	0	0	0	0	0	16	308	0	0	324	33	0	17	0	50	670
04:15 PM	0	217	32	0	249	0	0	0	0	0	16	324	0	1	341	26	0	15	0	41	631
04:30 PM	0	185	43	0	228	0	0	0	0	0	17	291	0	0	308	33	0	21	0	54	590
04:45 PM	0	201	21	0	222	0	0	0	0	0	18	345	0	0	363	33	0	13	0	46	631
Total	0	863	132	0	995	0	0	0	0	0	67	1268	0	1	1336	125	0	66	0	191	2522
05:00 PM	0	222	29	0	251	0	0	0	0	0	22	345	0	0	367	34	0	24	0	58	676
05:15 PM	0	181	22	0	203	0	0	0	0	0	11	340	0	0	351	20	0	30	0	50	604
05:30 PM	0	197	13	1	211	0	0	0	0	0	14	337	0	0	351	28	0	23	0	51	613
05:45 PM	0	164	20	0	184	0	0	0	0	0	19	296	0	0	315	18	0	19	0	37	536
Total	0	764	84	1	849	0	0	0	0	0	66	1318	0	0	1384	100	0	96	0	196	2429
Grand Total	0	1627	216	1	1844	0	0	0	0	0	133	2586	0	1	2720	225	0	162	0	387	4951
Apprch %	0	88.2	11.7	0.1		0	0	0	0		4.9	95.1	0	0		58.1	0	41.9	0		
Total %	0	32.9	4.4	0	37.2	0	0	0	0	0	2.7	52.2	0	0	54.9	4.5	0	3.3	0	7.8	

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719-633-2868

File Name : Golden Sage Rd - Woodmen Rd AM 1-20 Site Code : 00194460 Start Date : 1/21/2020 Page No : 1

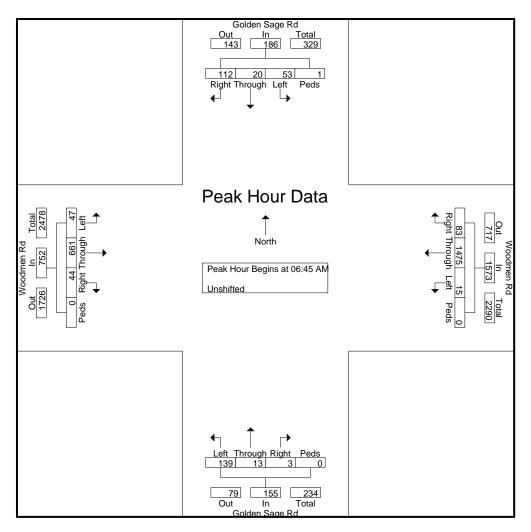
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Start Time	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Int. Total
06:30 AM	5	1	25	0	31	0	195	48	1	244	20	2	0	0	22	10	107	0	0	117	414
06:45 AM	12	5	28	0	45	4	355	30	0	389	24	4	0	0	28	14	151	9	0	174	636
Total	17	6	53	0	76	4	550	78	1	633	44	6	0	0	50	24	258	9	0	291	1050
07:00 AM	17	7	29	0	53	2	340	25	0	367	42	2	1	0	45	13	158	13	0	184	649
07:15 AM	8	4	30	0	42	3	424	16	0	443	44	3	1	0	48	12	171	11	0	194	727
07:30 AM	16	4	25	1	46	6	356	12	0	374	29	4	1	0	34	8	181	11	0	200	654
07:45 AM	7	1	7	0	15	2	293	17	0	312	13	5	0	0	18	16	209	20	0	245	590
Total	48	16	91	1	156	13	1413	70	0	1496	128	14	3	0	145	49	719	55	0	823	2620
08:00 AM	9	1	14	0	24	3	239	12	1	255	18	0	0	0	18	16	165	13	1	195	492
08:15 AM	13	2	12	0	27	2	267	19	1	289	18	3	2	0	23	28	142	6	1	177	516
Grand Total	87	25	170	1	283	22	2469	179	3	2673	208	23	5	0	236	117	1284	83	2	1486	4678
Apprch %	30.7	8.8	60.1	0.4		0.8	92.4	6.7	0.1		88.1	9.7	2.1	0		7.9	86.4	5.6	0.1		
Total %	1.9	0.5	3.6	0	6	0.5	52.8	3.8	0.1	57.1	4.4	0.5	0.1	0	5	2.5	27.4	1.8	0	31.8	

2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909

719-633-2868

File Name : Golden Sage Rd - Woodmen Rd AM 1-20 Site Code : 00194460 Start Date : 1/21/2020 Page No : 2

		Gold	en Sag	e Rd			Wo	odmer	n Rd			Gold	en Sag	e Rd			Wo	odmer	n Rd		
		Sou	uthbou	ınd			W	estbou	nd			No	rthbo	und			Ea	astbou	nd		
Start Time	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Int. Total
Peak Hour A	Analysi	is Froi	n 6:30	:00 AN	I to 8:1	5:00 A	M - P	eak 1 o	of 1												
Peak Hour fo	r Entir	e Inter	section	Begin	s at 6:45	5:00 Al	M														
6:45:00 AM	12	5	28	0	45	4	355	30	0	389	24	4	0	0	28	14	151	9	0	174	636
7:00:00 AM	17	7	29	0	53	2	340	25	0	367	42	2	1	0	45	13	158	13	0	184	649
7:15:00 AM	8	4	30	0	42	3	424	16	0	443	44	3	1	0	48	12	171	11	0	194	727
7:30:00 AM	16	4	25	1	46	6	356	12	0	374	29	4	1	0	34	8	181	11	0	200	654
Total Volume	53	20	112	1	186	15	1475	83	0	1573	139	13	3	0	155	47	661	44	0	752	2666
% App. Total	28.5	10.8	60.2	0.5		1	93.8	5.3	0		89.7	8.4	1.9	0		6.2	87.9	5.9	0		
PHF	.779	.714	.933	.250	.877	.625	.870	.692	.000	.888	.790	.813	.750	.000	.807	.839	.913	.846	.000	.940	.917



2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909

719-633-2868

File Name : Golden Sage Rd - Woodmen Rd PM 1-20 Site Code : 00194460 Start Date : 1/21/2020 Page No : 1

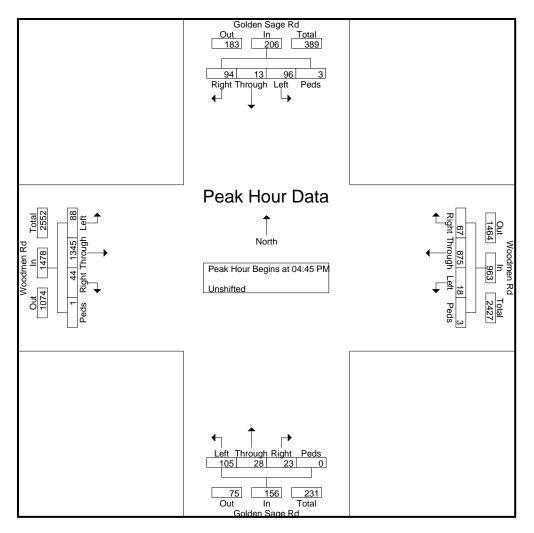
								G	roups	Printed	- Unsh	ifted									_
		Gold	en Sag	e Rd			Wo	odmer	n Rd			Gold	en Sag	e Rd			Wo	odmer	n Rd		
		So	uthbou	ind			W	estbou	nd			No	rthbou	und			E	astbou	nd		
Start Time	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Int. Total
04:00 PM	17	2	26	0	45	7	205	16	0	228	23	9	5	0	37	21	272	23	2	318	628
04:15 PM	7	1	22	0	30	5	241	26	0	272	26	5	6	0	37	28	325	12	1	366	705
04:30 PM	21	4	24	0	49	1	241	20	1	263	26	8	4	0	38	24	313	3	1	341	691
04:45 PM	29	3	19	2	53	1	202	24	0	227	16	4	0	0	20	18	341	10	1	370	670
Total	74	10	91	2	177	14	889	86	1	990	91	26	15	0	132	91	1251	48	5	1395	2694
05:00 PM	18	1	27	0	46	2	254	11	2	269	27	7	1	0	35	19	328	11	0	358	708
05:15 PM	7	2	6	0	15	8	192	9	1	210	32	10	12	0	54	23	340	17	0	380	659
05:30 PM	42	7	42	1	92	7	227	23	0	257	30	7	10	0	47	28	336	6	0	370	766
05:45 PM	21	1	18	0	40	1	180	12	1	194	19	5	5	0	29	18	326	9	0	353	616
Total	88	11	93	1	193	18	853	55	4	930	108	29	28	0	165	88	1330	43	0	1461	2749
Grand Total	162	21	184	3	370	32	1742	141	5	1920	199	55	43	0	297	179	2581	91	5	2856	5443
Apprch %	43.8	5.7	49.7	0.8		1.7	90.7	7.3	0.3		67	18.5	14.5	0		6.3	90.4	3.2	0.2		
Total %	3	0.4	3.4	0.1	6.8	0.6	32	2.6	0.1	35.3	3.7	1	0.8	0	5.5	3.3	47.4	1.7	0.1	52.5	

2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909

719-633-2868

File Name : Golden Sage Rd - Woodmen Rd PM 1-20 Site Code : 00194460 Start Date : 1/21/2020 Page No : 2

			en Sag					odmer					en Sag	,				odmer]
		Sou	uthbou	ind			W	estbou	nd			No	orthbo	und			Ea	astbou	nd		
Start Time	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Left	Through	Right	Peds	App. Total	Int. Total
Peak Hour A	nalys	is From	n 4:00	:00 PN	A to 5:4	5:00 Pl	M - Pe	ak 1 o	f 1												
Peak Hour fo	r Entir	e Inter	section	Begin	s at 4:45	5:00 PN	1														
4:45:00 PM	29	3	19	2	53	1	202	24	0	227	16	4	0	0	20	18	341	10	1	370	670
5:00:00 PM	18	1	27	0	46	2	254	11	2	269	27	7	1	0	35	19	328	11	0	358	708
5:15:00 PM	7	2	6	0	15	8	192	9	1	210	32	10	12	0	54	23	340	17	0	380	659
5:30:00 PM	42	7	42	1	92	7	227	23	0	257	30	7	10	0	47	28	336	6	0	370	766
Total Volume	96	13	94	3	206	18	875	67	3	963	105	28	23	0	156	88	1345	44	1	1478	2803
% App. Total	46.6	6.3	45.6	1.5		1.9	90.9	7	0.3		67.3	17.9	14.7	0		6	91	3	0.1		
PHF	.571	.464	.560	.375	.560	.563	.861	.698	.375	.895	.820	.700	.479	.000	.722	.786	.986	.647	.250	.972	.915

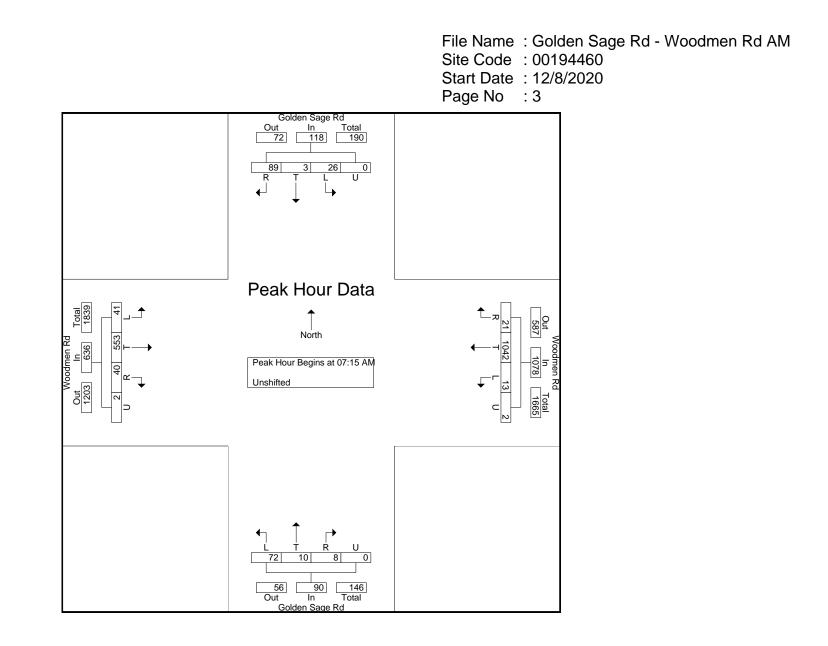


2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909

> File Name : Golden Sage Rd - Woodmen Rd AM Site Code : 00194460 Start Date : 12/8/2020 Page No : 1

									Group	os Printed	- Unshift										
			den Sa					odmen					len Sag					odmen			
		S	outhbo	und			W	estbour	nd			No	orthbou	nd			E	astboun	d		
Start		т	R	U	App. Total		т	R	U	App. Total		т	R	U	App. Total		т	R	U	App. Total	Int. Total
Time	-	•	K	Ŭ	App. Total	-	•	Ň	U	App. Total	-	•	, n	U	App. Total	-	•	· ·	U	App. Total	int. rotar
07:00 AM	17	1	13	0	31	1	242	5	0	248	13	4	0	0	17	7	127	6	0	140	436
07:15 AM	8	0	20	0	28	4	289	7	0	300	20	2	1	0	23	7	138	4	0	149	500
07:30 AM	8	2	30	0	40	3	318	7	0	328	29	3	2	0	34	10	138	11	1	160	562
07:45 AM	7	0	21	0	28	4	211	3	0	218	11	2	2	0	15	8	133	17	0	158	419
Total	40	3	84	0	127	12	1060	22	0	1094	73	11	5	0	89	32	536	38	1	607	1917
08:00 AM	3	1	18	0	22	2	224	4	2	232	12	3	3	0	18	16	144	8	1	169	441
08:15 AM	10	2	23	0	35	3	210	6	0	219	14	2	3	0	19	18	165	4	0	187	460
08:30 AM	6	0	22	0	28	1	247	6	0	254	16	0	1	0	17	7	161	9	0	177	476
08:45 AM	10	3	12	0	25	3	170	8	0	181	19	2	0	0	21	12	142	14	0	168	395
Total	29	6	75	0	110	9	851	24	2	886	61	7	7	0	75	53	612	35	1	701	1772
Grand Total	69	9	159	0	237	21	1911	46	2	1980	134	18	12	0	164	85	1148	73	2	1308	3689
Apprch %	29.1	3.8	67.1	0		1.1	96.5	2.3	0.1		81.7	11	7.3	0		6.5	87.8	5.6	0.2		
Total %	1.9	0.2	4.3	0	6.4	0.6	51.8	1.2	0.1	53.7	3.6	0.5	0.3	0	4.4	2.3	31.1	2	0.1	35.5	

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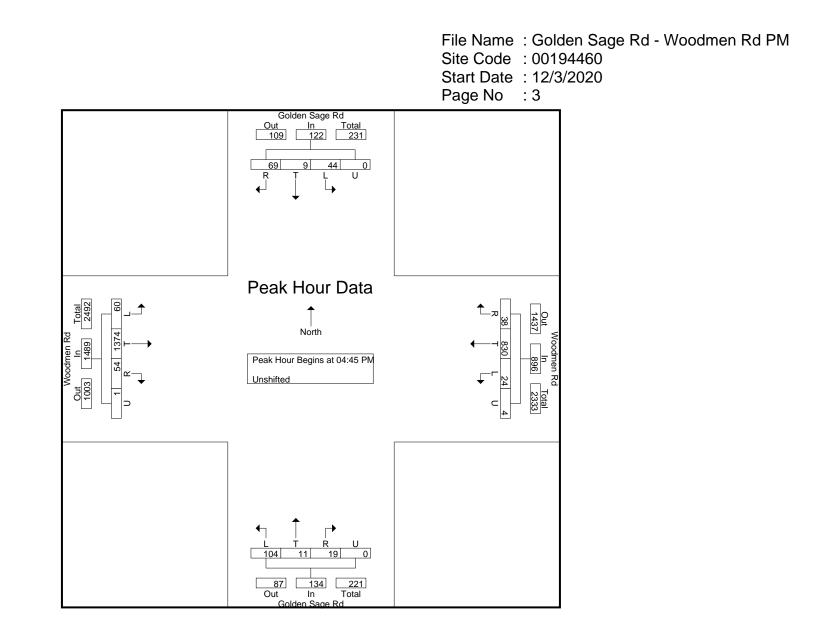


2504 E Pikes Peak Ave, Suite 304 Colorado Springs, CO 80909

> File Name : Golden Sage Rd - Woodmen Rd PM Site Code : 00194460 Start Date : 12/3/2020 Page No : 1

									Group	s Printed-	Unshifte	d									
			den Sag					oodmen					len Sage					oodmen]
		S	outhbou	nd			V	Vestbour	nd			N	orthbou	nd				Eastboun	d	1	
Start Time	L	Т	R	U	App. Total	L	Т	R	U	App. Total	L	Т	R	U	App. Total	L	Т	R	U	App. Total	Int. Total
04:00 PM	23	0	12	0	35	8	260	13	0	281	18	3	7	0	28	13	279	30	1	323	667
04:15 PM	13	1	15	0	29	4	220	8	0	232	16	2	4	0	22	16	332	19	0	367	650
04:30 PM	15	1	17	0	33	1	245	10	0	256	14	4	2	0	20	14	316	16	0	346	655
04:45 PM	11	0	13	0	24	2	223	12	2	239	21	2	3	0	26	10	335	8	1	354	643
Total	62	2	57	0	121	15	948	43	2	1008	69	11	16	0	96	53	1262	73	2	1390	2615
05:00 PM	9	3	16	0	28	2	225	8	0	235	27	3	2	0	32	15	336	17	0	368	663
05:15 PM	7	4	12	0	23	5	190	13	2	210	32	4	11	0	47	18	325	19	0	362	642
05:30 PM	17	2	28	0	47	15	192	5	0	212	24	2	3	0	29	17	378	10	0	405	693
05:45 PM	10	2	5	0	17	3	145	9	1	158	12	4	2	0	18	15	278	16	1	310	503
Total	43	11	61	0	115	25	752	35	3	815	95	13	18	0	126	65	1317	62	1	1445	2501
Grand Total	105	13	118	0	236	40	1700	78 4.3	5 0.3	1823	164 73.9	24 10.8	34	0 0	222	118 4.2	2579	135 4.8	3	2835	5116
Apprch % Total %	44.5 2.1	5.5 0.3	50 2.3	0 0	4.6	2.2 0.8	93.3 33.2	4.3 1.5	0.5	35.6	3.2	0.5	15.3 0.7	0	4.3	4.2 2.3	91 50.4	4.8 2.6	0.1 0.1	55.4	

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Falcon Marketplace TIS Report Addendum





LSC TRANSPORTATION CONSULTANTS, INC. 2504 East Pikes Peak Avenue, Suite 304 Colorado Springs, CO 80909 (719) 633-2868 FAX (719) 633-5430 E-mail: <u>lsc@lsctrans.com</u> Website: http://www.lsctrans.com

MEMORANDUM

DATE: July 21, 2020

TO: Kari Parsons – El Paso County Planning & Community Development

FROM: Jeff Hodsdon

SUBJECT: Falcon Marketplace TIS Report Addendum LSC #164350 PCD#: SP-17-001 and CDR-16-007

LSC has prepared this addendum to the Traffic Impact Study (TIS) report for Falcon Marketplace dated October 23, 2017 (September 5, 2018 revision). For reference, the EPC PCD File numbers for that report are SP-17-001 and CDR-16-007.

This addendum memo has been prepared to address final plat/construction drawing comments. Also, please refer to the attached itemized responses to comments.

Meridian/Eastonville Intersection

Southbound Left-Turn Phasing

The level of service and queuing analysis sheets for this intersection have been updated to reflect **protected-only southbound left-turn phasing** at this intersection. The revised analysis sheets are attached. The 2018 TIS report showed protected-permissive left-turn phasing. This change has been made in response to the comments regarding the negatively offset alignment of the southbound left-turn lane.

The results show similar results to the original TIS report, except for the southbound left turn individual movement level of service. This turning movement would have a higher average vehicular delay with protected-only phasing, but would operate acceptably. The movement would be below capacity.

Westbound Approach Lane Configuration

The attached analysis sheets also show the levels of service and queues for the westbound approach at this intersection. For this approach, there are essentially no changes to the assumptions from the 2018 TIS report, as a westbound single left turn and protected-permissive left-turn phasing have been assumed. Please refer to the plans prepared by Drexel Barrell for details on the improvements on this approach and leg of the intersection, including the detailed striping/pavement markings. The projected queues are projected to periodically back through the intersection of Eastonville/Bullet, due to the close spacing from Meridian Road. LSC recommends the addition of signs and potentially pavement markings indicating "DO NOT BLOCK INTERSECTION" on the westbound approach to Eastonville/Bullet.

Updated Figures and Tables

Please refer to the attached **updates** to the following figures and tables from the original report:

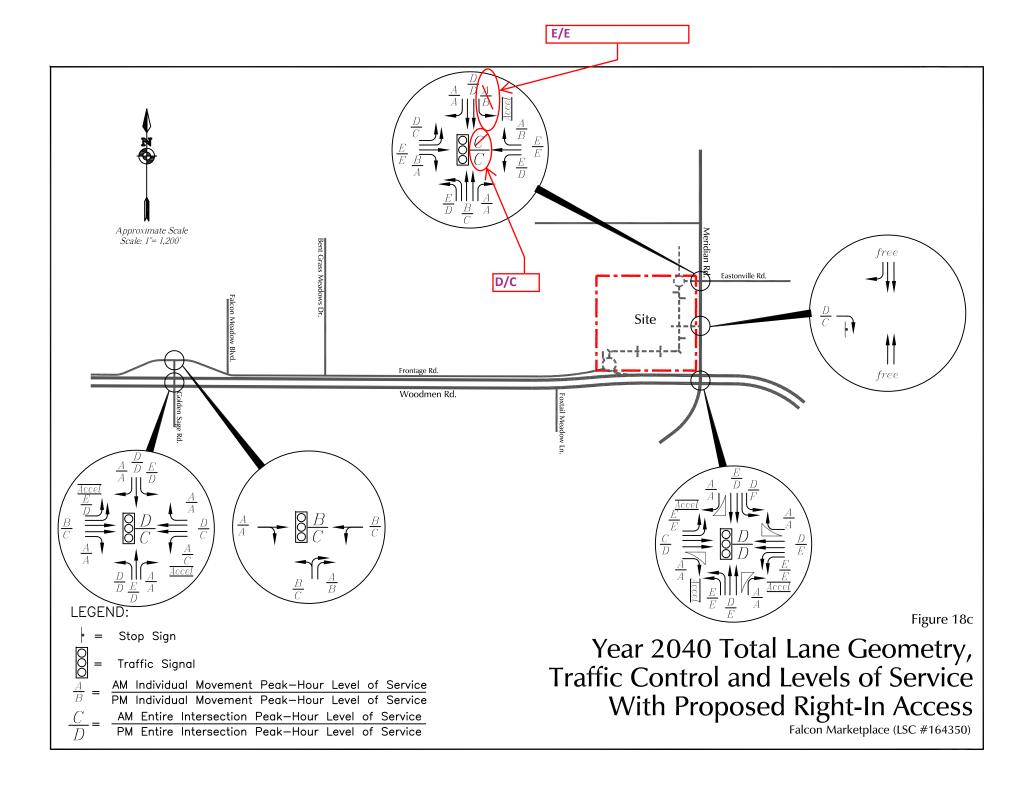
- Figure 18c Level of Service
- Table 4 Level of Service
- Table 6 Queuing
- Table 7b Improvements

Updated Level of Service and Queuing Analysis Sheets (attached)

- Revised applicable LOS sheets for the Meridian/Eastonville intersection
- Revised applicable queuing analysis sheets for the Meridian/Eastonville intersection

Figure 18c – Level of Service





Tables

Table 4 – Level of Service Table 6 – Queuing Table 7b – Improvements



		rdi	con Marketpla	100				
Intersection Movement	Volume		M Delay	V/C	Volume	LOS	PM Dolov	V/C
				V/C	volume	103	Delay	V/C
cenario: <u>Without</u> Proposed R	light-in Access i		en Roau					
Woodmen Road/Meridian Road	400		70.4	0.00	775		70.7	0.00
Eastbound Left	468	<u> </u>	70.1	0.90	775	<u> </u>	73.7	0.98
Westbound Left Westbound Through	150 804	E D	55.1 48.1	0.46	225 561	E E	60.2 58.8	0.64
Northbound Left	250	E	61.4	0.69	350	 D	54.9	0.69
Northbound Through	422	 D	38.6	0.09	1008	 F*	103.4	1.10*
Southbound Left	294	D	54.1	0.63	483	F	80.5	0.96
Southbound Through	941	D	54.4	0.92	704	D	48.1	0.77
Overall		D	37.4			D	53.2	
	· · ·							
Eastonville Road/Meridian Road	70		54.0	0.45	107		EC 1	0.69
Eastbound Through Westbound Left	73 250	E E	54.9 61.8	0.45 0.82	197 200	E D	56.1 47.0	0.68
Westbound Left Westbound Through	113	E	55.9	0.82	136	E	47.0 55.7	0.72
Northbound Left	387	E	70.3	0.87	644	E*	106.7	1.09*
Overall		 D	38.2			D	40.0	
Woodmen Road/Golden Sage Rd								
Eastbound Left	422	E	79.2	0.94	404	D	50.3	0.72
	19	E	56.4	0.17	39	D	52.8	0.26
Northbound Through	13							
Southbound Left	251	E	63.9	0.73	191	D	53.2	0.69
Southbound Left Southbound Through		D	52.7	0.73 0.15	191 26	D	53.1	0.69 0.19
Northbound Through Southbound Left Southbound Through Overall cenario: <u>With</u> Proposed Righ	251 21 	D D	52.7 38.6		-			
Southbound Left Southbound Through Overall cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road	251 21 t-in Access to V	D D /oodmen	52.7 38.6 Road	0.15	26	D C	53.1 24.6	0.19
Southbound Left Southbound Through Overall Cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left	251 21 t-in Access to V	D D /oodmen E	52.7 38.6 Road 74.5	0.15	26 785	D C E	53.1 24.6 78.0	0.19
Southbound Left Southbound Through Overall cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left	251 21 t-in Access to V 472 150	D D /oodmen	52.7 38.6 Road 74.5 55.7	0.15	26 785 225	D C E E	53.1 24.6 78.0 60.4	0.19
Southbound Left Southbound Through Overall Cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left	251 21 t-in Access to V	D D /oodmen E E	52.7 38.6 Road 74.5	0.15	26 785	D C E	53.1 24.6 78.0	0.19 1.00 0.64
Southbound Left Southbound Through Overall cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left Westbound Through	251 21 t-in Access to V 472 150 884	D D /oodmen E E D	52.7 38.6 Road 74.5 55.7 53.5	0.15 0.92 0.47 0.90	26 785 225 665	D C E E E	53.1 24.6 78.0 60.4 77.9	0.19 1.00 0.64 0.98
Southbound Left Southbound Through Overall cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left Westbound Through Northbound Left	251 21 t-in Access to V 472 150 884 328	D D Voodmen E E D E	52.7 38.6 Road 74.5 55.7 53.5 78.3	0.15 0.92 0.47 0.90 0.89	26 785 225 665 465	D C E E E E	53.1 24.6 78.0 60.4 77.9 60.4	0.19 1.00 0.64 0.98 0.82
Southbound Left Southbound Through Overall Cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left Northbound Left Northbound Through	251 21 t-in Access to V 472 150 884 328 344	D D Joodmen E E D E D	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5	0.15 0.92 0.47 0.90 0.89 0.37	26 785 225 665 465 893	D C E E E E E	53.1 24.6 78.0 60.4 77.9 60.4 69.7	0.19 1.00 0.64 0.98 0.82 0.98
Southbound Left Southbound Through Overall Cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left Westbound Through Northbound Left Northbound Left Southbound Left Southbound Left Southbound Through	251 21 t-in Access to V 472 150 884 328 344 294	D D Joodmen E E D E D D D	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9	0.15 0.92 0.47 0.90 0.89 0.37 0.64	26 225 665 465 893 483	D C E E E E E F	53.1 24.6 78.0 60.4 77.9 60.4 69.7 81.7	0.19 1.00 0.64 0.98 0.82 0.98 0.98 0.98
Southbound Left Southbound Through Overall Cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left Westbound Through Northbound Left Northbound Left Southbound Through Southbound Through Southbound Through Overall	251 21 t-in Access to V 472 150 884 328 328 344 294 941	D D Joodmen E D E D D D E	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93	26 225 665 465 893 483 704	D C E E E E E F D	53.1 24.6 60.4 77.9 60.4 81.7 53.0	0.19 1.00 0.64 0.98 0.82 0.98 0.98 0.98 0.98 0.98
Southbound Left Southbound Through Overall Cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left Westbound Through Northbound Left Northbound Left Southbound Through Southbound Through Southbound Through Overall Eastonville Road/Meridian Road	251 21 t-in Access to V 472 150 884 328 344 294 941 	D D J J J D E D E D E D D E D D D D	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9 40.3	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93 	26 225 665 465 483 704 	D C E E E E F D D D	53.1 24.6 78.0 60.4 77.9 60.4 75.0 53.0 50.8	0.19 1.00 0.64 0.98 0.82 0.98 0.98 0.98 0.96 0.83
Southbound Left Southbound Through Overall Cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left Westbound Through Northbound Left Northbound Left Southbound Through Southbound Left	251 21 t-in Access to V 472 150 884 328 328 344 294 941	D D Joodmen E D E D D D E	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93	26 225 665 465 893 483 704	D C E E E E E F D	53.1 24.6 60.4 77.9 60.4 81.7 53.0	0.19 1.00 0.64 0.98 0.82 0.98 0.98 0.98 0.98 0.98
Southbound Left Southbound Through Overall Cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left Westbound Through Northbound Left Northbound Left Southbound Left Southbound Left Southbound Through Overall Eastonville Road/Meridian Road Eastbound Through Westbound Left	251 21 t-in Access to V 472 150 884 328 344 294 941 73	D D Coodmen E D E D D E D D E D D E E	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9 40.3 59.3	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93 0.45	26 225 665 465 893 483 704 197	D C E E E E D D D E	53.1 24.6 78.0 60.4 77.9 60.4 69.7 81.7 53.0 50.8	0.19 1.00 0.64 0.98 0.98 0.98 0.98 0.98 0.96 0.83 0.67
Southbound Left Southbound Through Overall Cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left Westbound Through Northbound Left Southbound Left Southbound Through Overall Eastonville Road/Meridian Road Eastbound Through Westbound Left Westbound Left	251 21 t-in Access to V 472 150 884 328 344 294 941 73 250	D D D E D E D E D E D D E D E E E E	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9 40.3 59.3 61.4	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93 0.45 0.82	26 225 665 465 893 483 704 197 200	D C E E E E D D D E D	53.1 24.6 78.0 60.4 77.9 60.4 69.7 81.7 53.0 50.8 55.6 46.3	0.19 1.00 0.64 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.96 0.83 0.67 0.71
Southbound Left Southbound Through Overall Cenario: <u>With</u> Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Through Northbound Left Northbound Left Southbound Through Southbound Through Overall Eastbound Through Eastbound Through Westbound Left Westbound Left Westbound Through Northbound Left	251 21 t-in Access to V 472 150 884 328 344 294 941 941 73 250 113	D D E E D E D E D E D E E E E E	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9 40.3 59.3 61.4 55.8	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93 0.45 0.82 0.50	26 225 665 465 893 483 704 197 200 136	D C E E E E D D D E D E	53.1 24.6 78.0 60.4 77.9 60.4 69.7 81.7 53.0 50.8 55.6 46.3 55.6	0.19 1.00 0.64 0.98 0.98 0.98 0.98 0.96 0.83 0.67 0.71 0.56
Southbound Left Southbound Through Overall Cenario: With Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left Westbound Through Northbound Left Southbound Left Southbound Through Dverall Eastonville Road/Meridian Road Eastbound Through Westbound Through Westbound Left Westbound Left Southbound Through Westbound Left Westbound Left Southbound Left	251 21 t-in Access to V 472 150 884 328 344 294 941 73 250 113 222	D D E E D E D E D E E E E E E	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9 40.3 59.3 61.4 55.8 62.5	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93 0.45 0.82 0.50 0.69	26 225 665 465 893 483 704 197 200 136 415	D C E E E E E D D D C D E D E D D	53.1 24.6 60.4 77.9 60.4 69.7 81.7 53.0 50.8 55.6 46.3 55.6 54.5	0.19 1.00 0.64 0.98 0.98 0.98 0.96 0.83 0.67 0.71 0.56 0.76
Southbound Left Southbound Through Overall Cenario: With Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Through Northbound Left Southbound Left Southbound Through Dverall Eastonville Road/Meridian Road Eastbound Through Westbound Through Northbound Left Southbound Left Southbound Left Westbound Through Northbound Left Southbound	251 21 t-in Access to V 472 150 884 328 344 294 941 73 250 113 222 100	D D Coodmen E E D D E D E E E E E E	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9 40.3 59.3 61.4 55.8 62.5 68.5	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93 0.45 0.82 0.50 0.69 0.63	26 225 665 465 893 483 704 197 200 136 415 100	D C E E E E F D D D E D E C E E E E E E E E E E E E E	53.1 24.6 60.4 77.9 60.4 77.9 53.0 53.0 50.8 55.6 46.3 55.6 54.5 56.1	0.19 1.00 0.64 0.98 0.98 0.98 0.98 0.98 0.96 0.83 0.67 0.71 0.56 0.76 0.50
Southbound Left Southbound Through Overall Cenario: With Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left Westbound Through Northbound Left Southbound Left Southbound Through Overall Eastonville Road/Meridian Road Eastbound Through Westbound Left Westbound Left Westbound Left Southbound Left Southbound Left Westbound Left Southbound Left Sout	251 21 t-in Access to V 472 150 884 328 344 294 941 73 250 113 222 100	D D Coodmen E D D E D D E E E E E E E E E E D	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9 40.3 59.3 61.4 55.8 62.5 68.5 36.4	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93 0.45 0.82 0.50 0.69 0.63 	26 225 665 465 893 483 704 197 200 136 415 100 	D C E E E E F D D D E D E C	53.1 24.6 78.0 60.4 77.9 60.4 75.0 53.0 50.8 55.6 46.3 55.6 54.5 56.1 34.4	0.19 1.00 0.64 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.96 0.71 0.56 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.56 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50
Southbound Left Southbound Through Overall Cenario: With Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Left Westbound Through Northbound Left Southbound Through Southbound Through Overall Eastonville Road/Meridian Road Eastbound Through Westbound Through Northbound Left Southbound Left Southbound Left Southbound Left Overall Westbound Left Overall Woodmen Road/Golden Sage Rd Eastbound Left	251 21 t-in Access to V 472 150 884 328 344 294 941 73 250 113 222 100 113 222 100 	D D D E D E D E D D E E E E E E E E E E	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9 40.3 59.3 61.4 55.8 62.5 68.5 36.4 77.7	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93 0.45 0.82 0.50 0.69 0.63 0.93	26 225 665 465 893 483 704 197 200 136 415 100 394	D C E E E E F D D D E D E C C	53.1 24.6 78.0 60.4 77.9 60.4 69.7 81.7 53.0 50.8 55.6 46.3 55.6 56.1 34.4	0.19 1.00 0.64 0.98 0.98 0.98 0.98 0.98 0.96 0.83 0.67 0.71 0.56 0.76 0.50 0.71
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Southbound Left Southbound Through Overall Cenario: With Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Through Northbound Left Southbound Left Southbound Through Overall Eastonville Road/Meridian Road Eastbound Through Northbound Left Westbound Through Northbound Left Westbound Through Northbound Left Westbound Left Westbound Left Southbound Left Southbound Left Westbound Left Westbound Left Southbound Left Westbound Left Northbound Left Southbound Left	251 21 21 t-in Access to V 472 150 884 328 344 294 941 73 250 113 222 100 418 19 251 21	D D D E E D D E D D E E E E E E E E E E	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9 40.3 61.4 55.8 62.5 68.5 36.4 77.7 56.4 63.9 52.7	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93 0.45 0.82 0.50 0.69 0.63 0.93 0.17 0.73 0.15	26 225 665 465 893 483 704 197 200 136 415 100 394 39 191 26	D C E E E E E D D D E D E C D D D D D D	53.1 24.6 78.0 60.4 77.9 60.4 69.7 81.7 53.0 50.8 55.6 46.3 55.6 54.5 56.1 34.4 50.1 52.9 53.5 53.2	0.19 1.00 0.64 0.98 0.98 0.98 0.98 0.98 0.96 0.83 0.67 0.71 0.56 0.76 0.76 0.50 0.71 0.26 0.70 0.19
Southbound Left Southbound Through Overall Cenario: With Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Through Northbound Left Southbound Left Southbound Through Overall Eastonville Road/Meridian Road Eastbound Through Northbound Left Westbound Through Northbound Left Westbound Through Northbound Left Westbound Left Westbound Left Southbound Left Southbound Left Westbound Left Westbound Left Southbound Left Westbound Left Northbound Left Southbound Left	251 21 21 t-in Access to V 472 150 884 328 344 294 941 73 250 113 222 100 418 19 251	D D D E D E D D E D D E E E E E E E E E	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9 40.3 55.9 40.3 55.8 61.4 55.8 62.5 68.5 36.4 77.7 56.4 63.9	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93 0.45 0.82 0.50 0.69 0.63 0.93 0.17 0.73	26 225 665 465 893 483 704 197 200 136 415 100 394 39 191	D C E E E E D D D E C C D	53.1 24.6 60.4 77.9 60.4 69.7 81.7 53.0 50.8 55.6 46.3 55.6 54.5 56.1 34.4 50.1 52.9 53.5	0.19 1.00 0.64 0.98 0.98 0.98 0.98 0.98 0.96 0.83 0.67 0.71 0.56 0.76 0.50 0.71 0.26 0.70
Southbound Left Southbound Through Overall Cenario: With Proposed Righ Woodmen Road/Meridian Road Eastbound Left Westbound Through Northbound Left Southbound Left Southbound Through Overall Eastbound Through Westbound Through Northbound Left Westbound Through Northbound Left Westbound Through Northbound Left Westbound Through Northbound Left Westbound Left Westbound Left Westbound Left Southbound Left Southbound Left Westbound Left Westbound Left Westbound Left Southbound L	251 21 21 t-in Access to V 472 150 884 328 344 294 941 73 250 113 222 100 418 19 251 21	D D D E E D D E D D E E E E E E E E E E	52.7 38.6 Road 74.5 55.7 53.5 78.3 37.5 54.9 55.9 40.3 61.4 55.8 62.5 68.5 36.4 77.7 56.4 63.9 52.7	0.15 0.92 0.47 0.90 0.89 0.37 0.64 0.93 0.45 0.82 0.50 0.69 0.63 0.93 0.17 0.73 0.15	26 225 665 465 893 483 704 197 200 136 415 100 394 39 191 26	D C E E E E E D D D E D E C D D D D D D	53.1 24.6 78.0 60.4 77.9 60.4 69.7 81.7 53.0 50.8 55.6 46.3 55.6 54.5 56.1 34.4 50.1 52.9 53.5 53.2	0.19 1.00 0.64 0.98 0.98 0.98 0.98 0.98 0.96 0.83 0.67 0.71 0.56 0.76 0.76 0.50 0.71 0.26 0.70 0.19

				l	Projected (able 6 Queue Len Marketplac	•					
		Backgrou	Pr nd Traffic	ojected Qu Short					F	Projected Q	ueue Lengt tal Traffic	hs
Intersection			Right-In	Without	Right-In		light-In		Without	t Right-In	ight-In With Rig	
Movement	Lane Length	AM	PM	AM	PM	AM	PM	Lane Length	AM	PM	AM	PM
Eastonville Road/Me	eridian Road											
Northbound Left	425'	58	59	357	415	128	174	425'	259	430 ⁽¹⁾	148	236
Southbound Left	375							375			475 ⁽²⁾	207
Westbound Left	105'							105'			204' ⁽³⁾	196' ⁽³⁾
Westbound Thru	220'(4)							220' ⁽⁴⁾			292'	334'
Woodmen Road/Mei	ridian Road							Modeled with sufficient length to		(7)		
Eastbound Left	500' dual section + 215' (single)	168	361	193	368	173	443	determine needed length	382	865 ⁽⁵⁾	358	840
Westbound Left	435'	108	160	112	150	120	146	435'	129	177	217	318
Northbound Left	Modeled with sufficient length to determine needed length	142	140	139	163	162	220	Modeled with sufficient length to determine needed length	217	392	281	346
	315' dual section +145' Single	161	176	167	176	196	275	(400' dual section + 360' single)	243	929	307	391
Southbound Left	475'	147	137	151	152	184	202	475'	171	407	170	440
Woodmen Road/Gol									r			
Eastbound Left	465'	90	107	122	149	108	145	465'	421	297	437	238
 (2) The 375' of lane w afternoon peak hour. (3) The queue for the (4) The westbound th 	The reported 475' max queue during the WB Thru includes WB Left turning veh rough lane stacking distance between	ojected 100 ne morning icles as we the Meridian	vph; The q peak includ Il due to the n and Bullet	ueue report es left turnir reported 3 t intersection	s reflect 34 ng vehicles 9 (am)/22 (p ns;	% upstrean in the throu om) percer	n block time Igh lane qu It storage b	e during the morning peak hour and 2% c eue upstream of the start of the left turn l	ane.	om Woodme	n Road.	
Source: LSC Transport	1					1				lighlighted i		

			Table 7b - <mark>Updated</mark> Falcon Marketplace		
ltem #	Improvement	Roadway Impro Timing	vements With Proposed Right-In Access to Woodmen Road MORE DETAILED TIMING	ADT that will warrant/TRIGGER the Improvement	Responsibility
	Woodmen Road Metropolitan District fees and taxes to be paid in lieu of Countywide		wide Road Impact Fee Program Fees and Taxes		
1	Woodmen Koad metroponan District lees and taxes to be paid in net of coulingwide Road Impact fee Program fees and taxes. Woodmen Road has already been completed, but this project is joining the district.	District fees payable at platting	WITH PLAT & EACH BUILDING PERMIT	BASED ON WOODMEN ROAD DISTRICT REQUIREMENTS	Falcon Marketplace
2	Signalization of Meridian Road/Eastonville Road intersection.	Design and installation with the development of Falcon Marketplace once allowed by El Paso County.	PHASE 1	TRIGGER FOR INSTALL IS ONCE WARRANTS ARE MET - HOWEVER, IF NOT ALLOWED TO INSTALL W/PHASE 1, EPC WILL REQUIRE ESCROW FOR FULL AMOUNT W PHASE 1	Falcon Marketplace
3	Reconstruction of the Meridian center median south of Eastonville Road to achieve major street left-turn sight distance for the option of northbound/southbound protected/permissive left-turn signal phasing with interim single left-turn lanes northbound and southbound and to accommodate future northbound dual left-turn lanes if needed in the future. This lane should be 425 feet long plus a 200-foot taper. The taper would be back-to-back with the southbound dual left-turn taper.	Design and installation with the development of Falcon Marketplace.	PHASE 1	PLANNED TO BE COMPLETED WITH PHASE 1	Falcon Marketplace
4	Southbound right-turn deceleration lane on Meridian Road approaching Eastonville Road. This lane should be 235 feet long plus a 200-foot taper.	Design and installation with the develoment of Falcon Marketplace.	PHASE 1	PLANNED TO BE COMPLETED WITH PHASE 1	Falcon Marketplace
5	Design and construction of continuous southbound right-turn lanes and shoulder/bike lane on Meridian Road from Eastonville Road south to the proposed right-in/right-out and from the right-in/right-out south to Woodmen Road. (Note: Also please refer to related item #16 below.)	Design and installation with the develoment of Falcon Marketplace.	PHASE 1	PLANNED TO BE COMPLETED WITH PHASE 1	Falcon Marketplace
6	Widening of Eastonville Road east of Meridian Road to add a westbound through lane and add width as feasible between the westbound left-turn lane and the westbound through lane due to the proposed dual left-turn lanes on the west side of the intersection. This added width would allow for through lane alignment (with an acceptable offset across the intersection).	Design and installation with the development of Falcon Marketplace. Extent of this off-site improvement may be limited by available right-of-way and/or other existing constraints.	PHASE 1	PLANNED TO BE COMPLETED WITH PHASE 1	Falcon Marketplace
6a (7/21/20)	Add signs and potentially pavement markings indicating "DO NOT BLOCK INTERSECTION" on the westbound approach to Eastonville/Bullet (just east of the Meridian/Eastonville intersection)	Design and installation with the develoment of Falcon Marketplace.	PHASE 1	PLANNED TO BE COMPLETED WITH PHASE 1	Falcon Marketplace
7	Design and construction of the proposed extension of Eastonville Road between Meridian and the proposed roundabout.	Design and installation with the develoment of Falcon Marketplace.	PHASE 1	PLANNED TO BE COMPLETED WITH PHASE 1	Falcon Marketplace
8	Design and construction of the public street connection through the site (Falcon	Design and installation with the development of Falcon	On-Site Improvements PHASE 1	PLANNED TO BE COMPLETED WITH PHASE 1	Falcon Marketplace
9	Market Place). Design and construction of the proposed roundabout on-site west of the Meridian/Eastonville intersection. This would include a "stub" to the north for the anticipated future street connection north to Bern Grass Meadows Drive.	Marketplace. Design and installation with the develoment of Falcon Marketplace.	PHASE 1 PHASE 1	PLANNED TO BE COMPLETED WITH PHASE 1	Falcon Marketplace
10	Design and construction of the proposed roundabout on-site at the east terminus of the Woodmen Frontage Road.	Design and installation with the develoment of Falcon Marketplace.	PHASE 1	PLANNED TO BE COMPLETED WITH PHASE 1	Falcon Marketplace
			Woodmen/Meridian Intersection		
11	Extend existing westbound right-turn acceleration lane on Woodmen Road at Meridian Road to provide a continuous right-turn lane between Meridian Road and the proposed right-in-only access.	Design and installation with the develoment of Falcon Marketplace.	PHASE 1	PLANNED TO BE COMPLETED WITH PHASE 1	Falcon Marketplace
12	Lengthening of Woodmen eastbound dual left-turn lanes. Lengthening of eastbound left-turn lanes and potential further future lengthening to provide a 240- foot lane transition taper, 290 feet of deceleration distance plus sufficient vehicle stacking distance. CURRENT lane length: 500 feet of dual left-turn lane and 425-foot taper. Of this taper, 215 feet is full-width "decel" distance. Remaining 20 feet of the required 235-foot decel distance occurs in the first 20 feet of the 500-foot dual left- turn lanes. The remainder of the dual left-turn lanes is stacking distance - 480 feet. SHORT TERM: Based on the short-term analysis, the existing lane provides sufficient stacking distance. LONG TERM: This lane will likely need to be extended to provide a total of 640 feet of dual left storage distance plus 235 feet of deceleration length plus a 200-foot taper.	Future extension of existing dual left-turn lanes once traffic queues regularly extend beyond the 480-loot stacking distance.	PAYMENT WITH DEVELOPMENT PLAN FOR EACH INDIVIDUAL LOT; WITH REGARDS TO THE TIMING OF THE IMPROVEMENT: "once traffic queues regularly actend beyond the 480-foot stacking distance." This is estimated to be approximately 65 PM peak hour eastbound left turns above the estimated short term total volume from Figure 16a of the TIS. Note: Short term total volumes assume the Meridian extension to Highway 24 to be open.	PAYMENT OF PRO RATA SHARE WITH EACH LOT DEVELOPMENT PLAN; The estimated "trigger" of 65 PM peak hour eastbound left turns above the estimated short term total volume (from Figure 16a of the TIS) approximately translates to an additional 957 directional ADT for residential trips (based on the ITE single family trip ratio). This estimated threshold may be reached with a combination of Falcon Marketplace trips and background trips. Falcon Marketplace daily trip to afternoon peak hour trip ratio is about 23:1 but would need to be adjusted for passby trips.	Falcon Marketplace will pay its pro-rata share by (based on total traffic volumes) of the cost of the improvements. The payment amount will be determined on an individual-lot basis in the form of an escrow amount payable at the time of site development plan for each individual lot.
13	Meridian northbound dual left-turn lanes: Lengthening of northbound left-turn lanes and potential further future lengthening to provide a 200-foot lane transition taper, 235 feet of deceleration distance plus sufficient vehicle stacking distance. CURRENT inae configuration: 315 feet of dual left-turn lane length, 145 feet of single left-turn lane length and a 150-foot laper, 235 feet of deceleration at single left-turn lane. This provides a 150-foot taper, 235 feet of deceleration distance (235 feet) plus a 200-foot taper mains. The deceleration distance (235 feet) plus a 200-foot taper will need to be provided south of the end of the existing 315-foot dual left stacking lanes. For the deceleration distance, (235 feet) plus a 200-foot taper will need to be provided south of the end of the existing 315-foot dual left stacking lanes. For the deceleration fusitance, as tandard 200-foot taper will need to be added in the median. These modifications will involve median reconstruction and restriping south of the existing dual left-turn lanes. This would result in a 200-foot taper, 235-foot deceleration distance, and 15 feet -turn stacking.	With the development of Falcon Marketplace, extend the northbound left-turn lane as described in the column to the left and as shown in Figure 25.	PHASE 1	PLANNED TO BE COMPLETED WITH PHASE 1	Short Term - Falcon Marketplace
14	Meridian northbound dual left-turn lanes. LONG TERM: Potentially, additional growth in the Falcon Area and east along Falcon Highway will add left-turning traffic demand. Long-term analysis indicates the potential future need for 400 feet of stacking distance plus the 235 feet of deceleration distance and the 200-foot taper.	Future (if necessary – Add additional lane length beyond #13 to provide additional stacking if/when needed (as shown in Figure 26).			By other future developments impacting this turn lane. Potential for fee program credit for improvements completed as this is a regional intersection.
			Golden Sage Intersections		
15	Directional wayfinding sign(s) on eastbound Woodmen Road upstream of Golden Sage - notifying/reminding eastbound motorists of the option to enter Falcon Marketplace via the Woodmen Frontage Road.	Design and installation with the development of Falcon Marketplace.	PHASE 1	PLANNED TO BE COMPLETED WITH PHASE 1	Falcon Marketplace
16	Lengthening of the current eastbound single left-turn deceleration lane on Woodmen approaching Coden Sage Road to provide a 240-foot transition taper (20:1 taper ratio), 290 feet of deceleration distance plus sufficient vehicle stacking distance. CURRENT: 175-foot taper plus a 465-foot left-turn lane which translates to a 175-foot taper, 290-foot deceleration distance, and 175 feet of stacking distance. State 1. LONG TERM: Lengthen single left-turn lane and/or future implementation of dual left-turn lanes (20:1 taper ratio) plus provide sufficient vehicle stacking length - model indicates 471 feet of dual left stacking distance based on morning peak-hour projected volumes. If a dual left is implemented in the future, consideration will need to be given to the configuration on Golden Sage and at the Golden Sage/Woodmen Frontage Road intersection to receive the dual left-turn movement.	Short Term: The existing lane is adequate based on the short- term analysis. Long Term: Future with additional development served by the north frontage road - extension of existing single left-turn lane and potentially widening in the median to provide dual left-turn lanes to provide additional vehicle stacking distance as described in the column to the left.	PAYMENT WITH DEVELOPMENT PLAN FOR EACH INDIVIDUAL LOT; WITH REGARDS TO THE TIMING OF THE IMPROVEMENT: AS NEEDED TO MAINTAIN ADEQUATE LEVEL OF SERVICE AND VEHICLE STACKING DISTANCE." This is estimated to be when the eastbound left turn turning volume reaches approximately 200 vehicles per hour during the PM peak. This translates to about 40 vehicles per hour over the estimated short term total volume from Figure 16a of the TIS. Note: Short term total volumes assume the Meridian extension to Highway 24 to be open.	PAYMENT OF PRO RATA SHARE WITH EACH LOT DEVELOPMENT FLAN; The estimated "trigger" of 40 PM peak hour eastbound left turns above the estimated short term total volume (from Figure 16a of the TIS) approximately translates to and additional 589 directional ADT for residential trips making this turning movement (based on the ITE single family trip ratio). This estimated threshold may be reached with a combination of Falcon Marketplace trips and background trips. Falcon Marketplace daily trip to afternoon peak hour trip ratio is about 23:1 but would need to be adjusted for passby trips.	Falcon Marketplace will pay its pro-rata share by (based on total traffic volumes) of the cost of the improvements. The payment amount will be determined on an individual-lot basis in the form of an escrow amount payable at the time of site development plan for each individual lot.
16a (7/21/20)	Add protected/permitted phasing for left-turn movements	Prepare a traffic signal modification plan and furnish/install new traffic signal heads for protected-permissive phasing and other necessary hardware, software needed to implement this phase; modify existing signal timing plan.	If/when needed to maintain acceptable level of service/traffic operations and/or to control vehicle queues	Prior to the opening of the Bent Grass Meadows Boulevard to the public, signal modification plans should be prepared, and coordination with EPC DPW (and possibly the City of Colorado Springs) will be a necessary step(s) toward future implementation of this left turn phase. Steps should be taken such that the phase can be implemented shortly after it has been determined that it should be implemented. This determination would be made by monitoring the traffic volumes and operations once Bent Grass Meadows Drive connection is opened to traffic to determine if the phase should be added at that time.	Falcon Marketplace will pay its pro-rata share by (based on total traffic volumes) of the cost of the improvements. The payment amount will be determined on an individual-lot basis in the form of an escrow amount payable at the time of site development plan for each individual lot.
17	Southbound exclusive right-turn lane on Golden Sage Road approaching Woodmen Road (a continuous right-turn lane within the 150 feet between the Woodmen Frontage Road and Woodmen Road).	If/when needed to maintain acceptable level of service/traffic operations and/or to control vehicle queues.	PAYMENT WITH DEVELOPMENT PLAN FOR EACH INDIVIDUAL LOT; WITH REGARDS TO THE TIMING OF THE IMPROVEMENT: AS NEEDED TO MAINTAIN ADEQUATE LEVEL OF SERVICE AND VEHICLE STACKING DISTANCE." A preliminary trigger could be a southbound right turn volume of about 150-175 vehicles per hour. This translates to about 5 to 30 vehicles per hour over the projected short term volume from Figure 16a of the TIS. This may be conservative due to the westbound right turn acceleration lane on Woodmen Road. Additional study may indicate a higher threshold based on empirical data collection and analysis.	PAYMENT OF PRO RATA SHARE WITH EACH LOT DEVELOPMENT PLAN; The estimated "trigger" of 5-30 AM peak hour southbound right turns above the estimated short term total volume (from Figure 16a of the TIS) approximately translates to an additional 85-510 directional ADT for residential trips making this turning movement (based on the TE single family trip ratio). This estimated threshold may be reached with a combination of Falcon Marketplace trips and background trips. Falcon Marketplace daily trip to afternoon peak hour trip ratio is about 45:1 but would need to be adjusted for passby trips.	Falcon Marketplace will pay its pro-rata share by (based on total traffic volumes) of the cost of the improvements. The payment amount will be determined on an individual-iot basis in the form of an escrow amount payable at the time of site development plan for each individual lot.
18	Signalization of Golden Sage Road/Woodmen Frontage Road or reconstruction as a modern roundabout; Future additional laneage may be necessary at this intersection to accommodate vehicle queues and for traffic operations.	Please refer to the attached sheet.	Please refer to the attached sheet.	PAYMENT OF PRO RATA SIGNAL ESCROW WITH EACH LOT DEVELOPMENT PLAN;	Falcon Marketplace will pay its pro-rata share by (based on total traffic volumes) of the cost of the improvements. The payment amount will be determined on an individual-lot basis in the form of an escrow amount payable at the time of site development plan for each individual lot.
Source: LS	C Transportation Consultants, Inc. REV. (7-21-2020)				

Meridian/Eastonville intersection



Timings 2: Meridian Rd & Eastonville Rd

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻሻ	↑	1	ሻ	↑	1	ሻሻ		1	ሻ	- † †	1
Traffic Volume (vph)	122	73	138	250	113	125	222	596	150	100	1807	86
Future Volume (vph)	122	73	138	250	113	125	222	596	150	100	1807	86
Turn Type	pm+pt	NA	Perm	pm+pt	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	10.0	11.5	11.5	10.0	11.5	11.5	10.0	11.5	11.5	10.0	11.5	11.5
Total Split (s)	15.0	17.0	17.0	18.0	20.0	20.0	16.0	69.0	69.0	16.0	69.0	69.0
Total Split (%)	12.5%	14.2%	14.2%	15.0%	16.7%	16.7%	13.3%	57.5%	57.5%	13.3%	57.5%	57.5%
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	3.0	4.5	4.5
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.5	5.5	4.0	5.5	5.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	20.4	10.8	10.8	28.4	15.1	15.1	11.7	64.1	64.1	11.1	63.5	63.5
Actuated g/C Ratio	0.17	0.09	0.09	0.24	0.13	0.13	0.10	0.55	0.55	0.09	0.54	0.54
v/c Ratio	0.25	0.45	0.53	0.82	0.50	0.42	0.69	0.32	0.17	0.63	0.96	0.10
Control Delay	36.3	59.3	15.3	61.4	55.8	12.2	62.5	15.6	2.6	68.5	40.3	2.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	36.3	59.3	15.3	61.4	55.8	12.2	62.5	15.6	2.6	68.5	40.3	2.0
LOS	D	E	В	E	E	В	Е	В	А	E	D	A
Approach Delay		32.7			47.5			24.5			40.1	
Approach LOS		С			D			С			D	
Intersection Summary												
Cycle Length: 120												
Actuated Cycle Length: 11	17.5											
Natural Cycle: 90												
Control Type: Actuated-Ur	ncoordinated											
Maximum v/c Ratio: 0.96												
Intersection Signal Delay:				I	ntersectio	n LOS: D						
Intersection Capacity Utiliz	zation 88.1%)		[(CU Level	of Service	ε					
Analysis Period (min) 15												
-												

Splits and Phases: 2: Meridian Rd & Eastonville Rd

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16 s	69 s	15 s 20)s

Timings 2: Meridian Rd & Eastonville Rd

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻሻ	†	1	ሻ	•	1	ካካ	<u></u>	1	ሻ	- † †	1
Traffic Volume (vph)	339	197	228	200	136	225	415	1246	250	100	1203	134
Future Volume (vph)	339	197	228	200	136	225	415	1246	250	100	1203	134
Turn Type	pm+pt	NA	Perm	pm+pt	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	11.5	11.5	10.0	11.5	11.5
Total Split (s)	21.0	27.0	27.0	16.0	22.0	22.0	24.0	54.0	54.0	23.0	53.0	53.0
Total Split (%)	17.5%	22.5%	22.5%	13.3%	18.3%	18.3%	20.0%	45.0%	45.0%	19.2%	44.2%	44.2%
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	3.0	4.5	4.5
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.5	5.5	4.0	5.5	5.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	33.0	18.3	18.3	26.8	15.1	15.1	18.5	49.5	49.5	13.0	44.0	44.0
Actuated g/C Ratio	0.30	0.17	0.17	0.24	0.14	0.14	0.17	0.45	0.45	0.12	0.40	0.40
v/c Ratio	0.51	0.67	0.52	0.71	0.56	0.56	0.76	0.80	0.31	0.50	0.87	0.20
Control Delay	32.8	55.6	9.6	46.3	55.6	11.5	54.5	32.0	3.7	56.1	39.1	6.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	32.8	55.6	9.6	46.3	55.6	11.5	54.5	32.0	3.7	56.1	39.1	6.7
LOS	С	E	А	D	Е	В	D	С	А	E	D	A
Approach Delay		31.8			34.6			33.2			37.2	
Approach LOS		С			С			С			D	
Intersection Summary												
Cycle Length: 120												
Actuated Cycle Length: 11	0.4											
Natural Cycle: 70												
Control Type: Actuated-Un	coordinated	1										
Maximum v/c Ratio: 0.87												
Intersection Signal Delay:	34.4			Ir	ntersectio	n LOS: C						
Intersection Capacity Utiliz	ation 81.1%)		10	CU Level	of Service	e D					
Analysis Period (min) 15												

Splits and Phases: 2: Meridian Rd & Eastonville Rd

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23 s	54 s	16 s	27 s
▲ ø5	∉ Ø6		₩ Ø8
24 s	53 s	21 s	22 s

Meridian/Eastonville intersection



Queuing and Blocking Report

Intersection: 2: Meridian Rd & Eastonville Rd

Movement	EB	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB
Directions Served	L	L	Т	R	L	Т	R	L	L	Т	Т	R
Maximum Queue (ft)	144	89	132	137	204	412	208	147	152	170	168	78
Average Queue (ft)	77	12	61	49	158	158	56	76	88	66	80	18
95th Queue (ft)	129	47	113	97	226	339	173	132	142	161	168	49
Link Distance (ft)	261	261	261	261		796				444	444	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)					105		200	425	425			525
Storage Blk Time (%)					39	6						
Queuing Penalty (veh)					93	23						

Intersection: 2: Meridian Rd & Eastonville Rd

Movement	SB	SB	SB	SB
Directions Served	L	Т	Т	R
Maximum Queue (ft)	475	1402	1422	1401
Average Queue (ft)	197	1075	1145	563
95th Queue (ft)	500	1638	1635	1636
Link Distance (ft)		1380	1380	1380
Upstream Blk Time (%)		12	29	15
Queuing Penalty (veh)		0	0	0
Storage Bay Dist (ft)	375			
Storage Blk Time (%)	0	34		
Queuing Penalty (veh)	0	34		

Queuing and Blocking Report

Intersection: 2: Meridian Rd & Eastonville Rd

Movement	EB	EB	EB	EB	WB	WB	WB	NB	NB	NB	NB	NB
Directions Served	L	L	Т	R	L	Т	R	L	L	Т	Т	R
Maximum Queue (ft)	244	178	251	179	196	355	217	218	272	411	415	118
Average Queue (ft)	156	84	130	71	119	124	59	125	141	218	231	45
95th Queue (ft)	228	178	211	130	195	286	160	195	219	377	385	96
Link Distance (ft)	261	261	261	261		796				444	444	
Upstream Blk Time (%)	0		0							0	0	
Queuing Penalty (veh)	0		0							0	0	
Storage Bay Dist (ft)					105		200	425	425			525
Storage Blk Time (%)					22	12				0	0	
Queuing Penalty (veh)					82	50				0	0	

Intersection: 2: Meridian Rd & Eastonville Rd

Movement	SB	SB	SB	SB
Directions Served	L	Т	Т	R
Maximum Queue (ft)	207	448	481	90
Average Queue (ft)	76	297	310	38
95th Queue (ft)	150	429	446	69
Link Distance (ft)		1380	1380	1380
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	375			
Storage Blk Time (%)	0	2		
Queuing Penalty (veh)	0	2		

V_3 TIS.pdf Markup Summary

Callout (1)



Subject: Callout Page Label: 9 Author: Daniel Torres Date: 4/16/2024 5:21:53 PM Status: Color: Color: Color: Space:

Figure 7 has been removed. Please provide/update